

GOMOS Level 2 Daily Report

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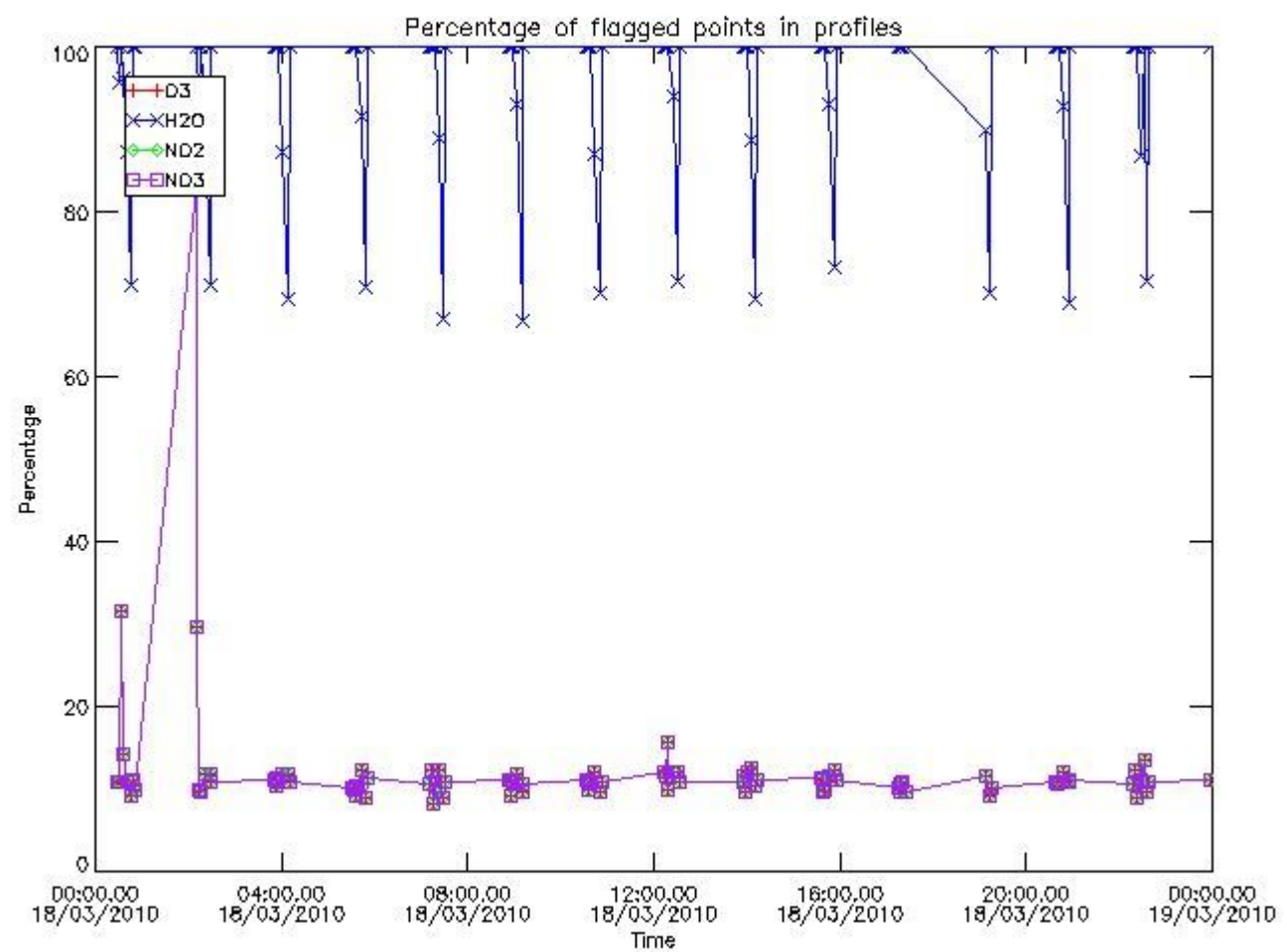
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279	GOM_NL__2PRFIN20100318_215625_000000382087_00444_42081_0206.N1	18-MAR-2010 21:56:25	Bright	38.000	66	37Gam Cyg	2.2080	5900.0	76	42081	No
280	GOM_NL__2PRFIN20100318_215810_000000362087_00444_42081_0207.N1	18-MAR-2010 21:58:10	Bright	35.500	92	53Eps Cyg	2.5000	4500.0	71	42081	No
281	GOM_NL__2PRFIN20100318_220642_000000542087_00444_42081_0208.N1	18-MAR-2010 22:06:42	Twilight	54.000	11	53Alp Aql	0.76500	8000.0	108	42081	No
282	GOM_NL__2PRFIN20100318_221707_000000492087_00444_42081_0209.N1	18-MAR-2010 22:17:07	Dark	48.500	155	41Pi Sgr	2.9000	6600.0	97	42081	No
283	GOM_NL__2PRFIN20100318_221911_000000462087_00444_42081_0210.N1	18-MAR-2010 22:19:11	Dark	45.500	57	34Sig Sgr	2.0660	26000.	91	42081	No
284	GOM_NL__2PRFIN20100318_222242_000000582087_00444_42081_0211.N1	18-MAR-2010 22:22:42	Dark	57.500	38	20Eps Sgr	1.8360	11000.	115	42081	No
285	GOM_NL__2PRFIN20100318_222832_000000462087_00445_42082_0198.N1	18-MAR-2010 22:28:32	Dark	45.500	141	Bet Ara	2.8400	4600.0	91	42082	No
286	GOM_NL__2PRFIN20100318_223211_000000382087_00445_42082_0199.N1	18-MAR-2010 22:32:11	Dark	38.000	134	Bet TrA	2.8100	6600.0	76	42082	No
287	GOM_NL__2PRFIN20100318_223453_000000532087_00445_42082_0200.N1	18-MAR-2010 22:34:53	Dark	53.000	4	Alp1Cen	-0.010000	5800.0	106	42082	No
288	GOM_NL__2PRFIN20100318_223659_000000482087_00445_42082_0201.N1	18-MAR-2010 22:36:59	Dark	47.500	78	Alp Lup	2.3040	28000.	95	42082	No
289	GOM_NL__2PRFIN20100318_223829_000000532087_00445_42082_0202.N1	18-MAR-2010 22:38:29	Straylight	52.500	81	Eta Cen	2.3560	28000.	105	42082	No
290	GOM_NL__2PRFIN20100318_224133_000000612087_00445_42082_0203.N1	18-MAR-2010 22:41:33	Straylight	60.500	54	5The Cen	2.0550	4500.0	121	42082	No
291	GOM_NL__2PRFIN20100318_224315_000000502087_00445_42082_0204.N1	18-MAR-2010 22:43:15	Straylight	50.000	123	lot Cen	2.7500	10200.	100	42082	No
292	GOM_NL__2PRFIN20100318_224852_000000522087_00445_42082_0205.N1	18-MAR-2010 22:48:52	Straylight	52.000	106	9Bet Crv	2.6480	5600.0	104	42082	No
293	GOM_NL__2PRFIN20100318_225107_000000492087_00445_42082_0206.N1	18-MAR-2010 22:51:07	Twilight	49.000	100	4Gam Crv	2.5800	13100.	98	42082	No
294	GOM_NL__2PRFIN20100318_230158_000000462087_00445_42082_0207.N1	18-MAR-2010 23:01:58	Bright	46.000	62	94Bet Leo	2.1360	9700.0	92	42082	No
295	GOM_NL__2PRFIN20100318_231014_000000412087_00445_42082_0208.N1	18-MAR-2010 23:10:14	Bright	40.500	174	52Psi UMa	3.0040	4400.0	81	42082	No
296	GOM_NL__2PRFIN20100318_231327_000000362087_00445_42082_0209.N1	18-MAR-2010 23:13:27	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	42082	No
297	GOM_NL__2PRFIN20100318_231458_000000442087_00445_42082_0210.N1	18-MAR-2010 23:14:58	Bright	43.500	36	50Alp UMa	1.8000	6300.0	87	42082	No
298	GOM_NL__2PRFIN20100318_231723_000000482087_00445_42082_0211.N1	18-MAR-2010 23:17:23	Bright	48.000	55	79Zet UMa	2.0600	10200.	96	42082	No
299	GOM_NL__2PRFIN20100318_232157_000000402087_00445_42082_0212.N1	18-MAR-2010 23:21:57	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	42082	No
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301	GOM_NL__2PRFIN20100318_233526_000000392087_00445_42082_0214.N1	18-MAR-2010 23:35:26	Bright	38.500	19	50Alp Cyg	1.2460	10500.	77	42082	No
302	GOM_NL__2PRFIN20100318_233701_000000412087_00445_42082_0215.N1	18-MAR-2010 23:37:01	Bright	40.500	66	37Gam Cyg	2.2080	5900.0	81	42082	No
303	GOM_NL__2PRFIN20100318_233846_000000372087_00445_42082_0216.N1	18-MAR-2010 23:38:46	Bright	37.000	92	53Eps Cyg	2.5000	4500.0	74	42082	No
304	GOM_NL__2PRFIN20100318_234718_000000512087_00445_42082_0217.N1	18-MAR-2010 23:47:18	Twilight	51.000	11	53Alp Aql	0.76500	8000.0	102	42082	No
305	GOM_NL__2PRFIN20100318_235744_000000462087_00445_42082_0218.N1	18-MAR-2010 23:57:44	Dark	46.000	155	41Pi Sgr	2.9000	6600.0	92	42082	No

3. Quality information per product

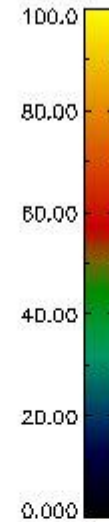
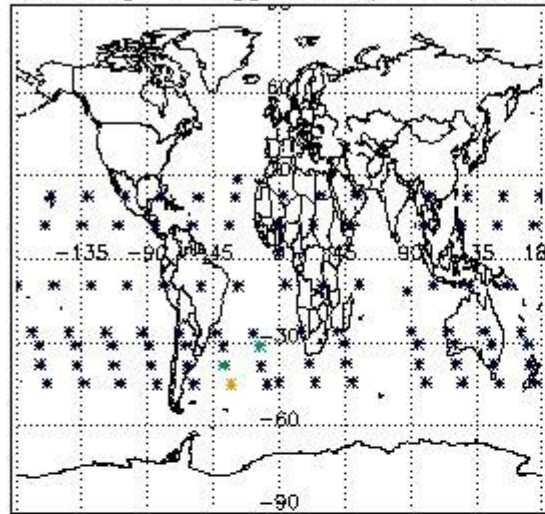
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

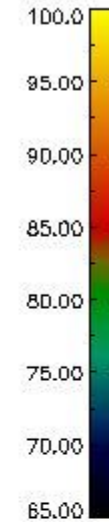
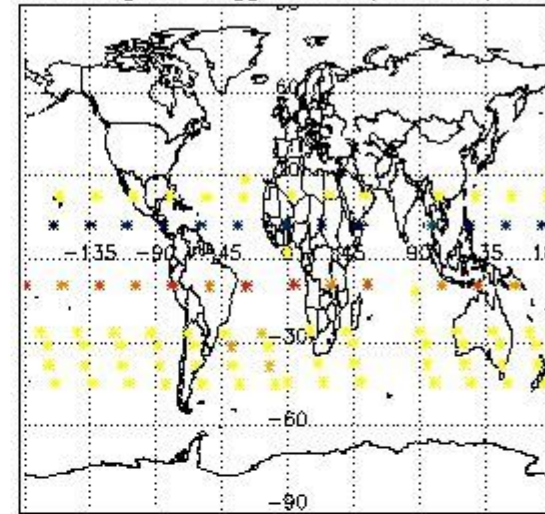


3.2 Plot quality information per product (world map)

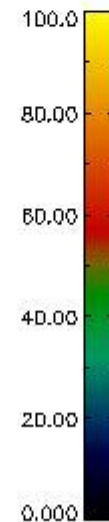
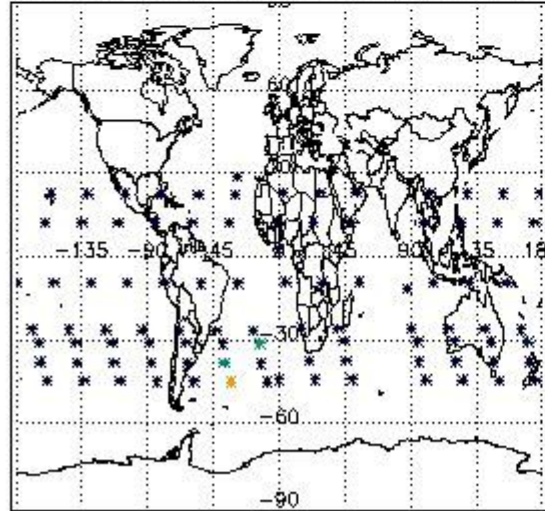
Percentage of flagged data per O3 profile



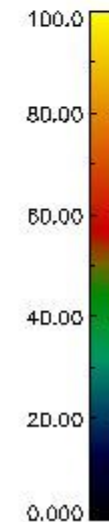
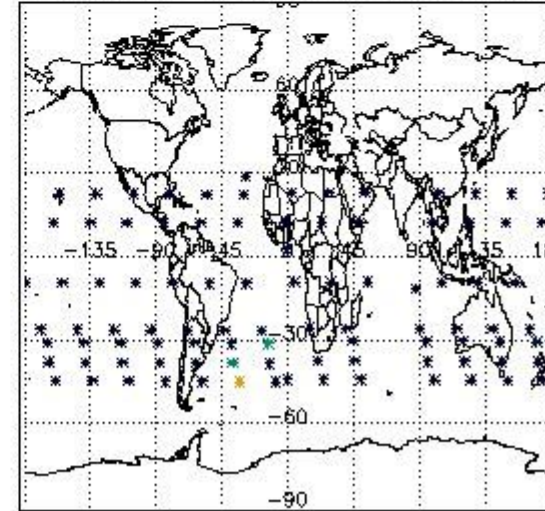
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

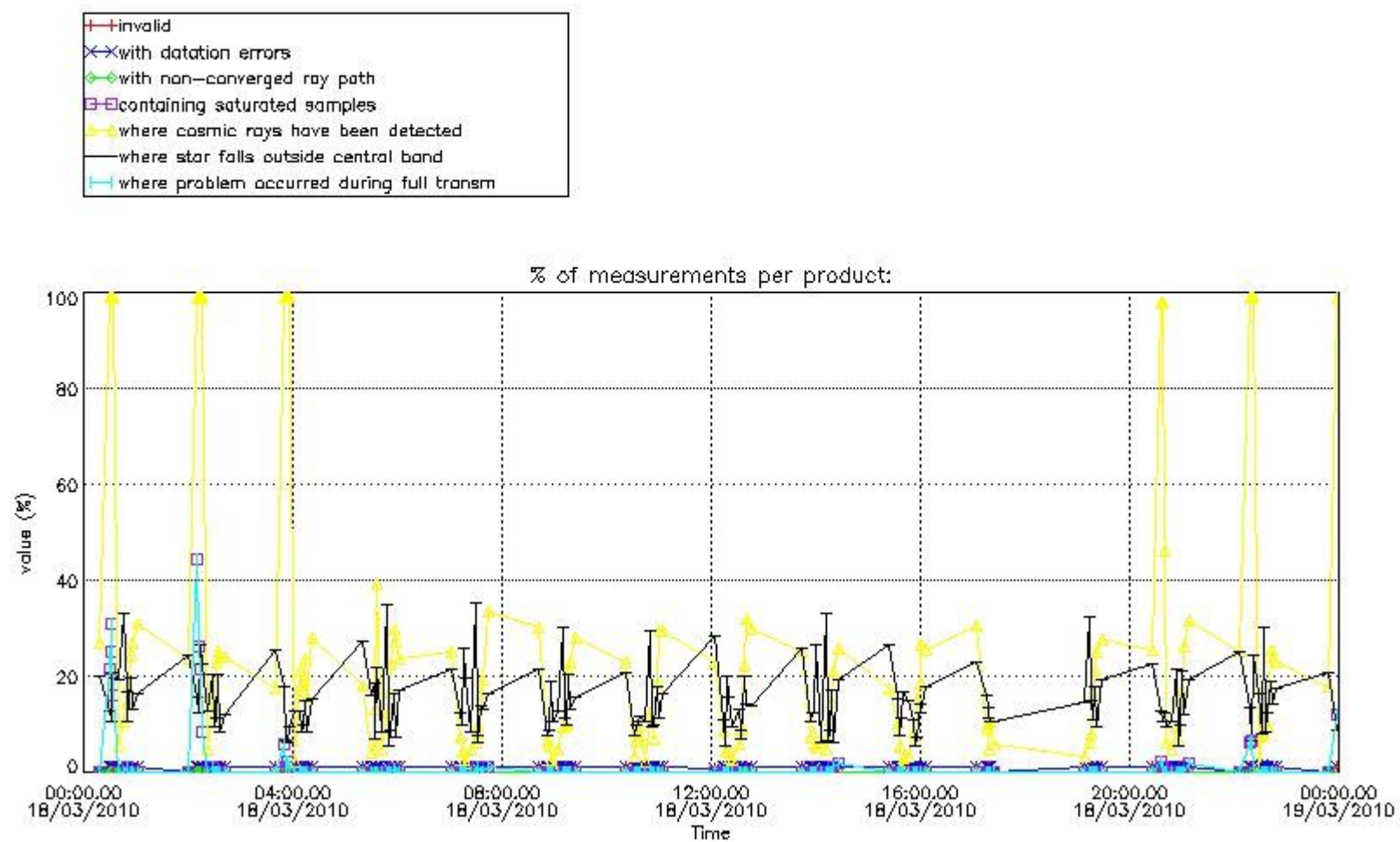


4. Level 1 quality information per product

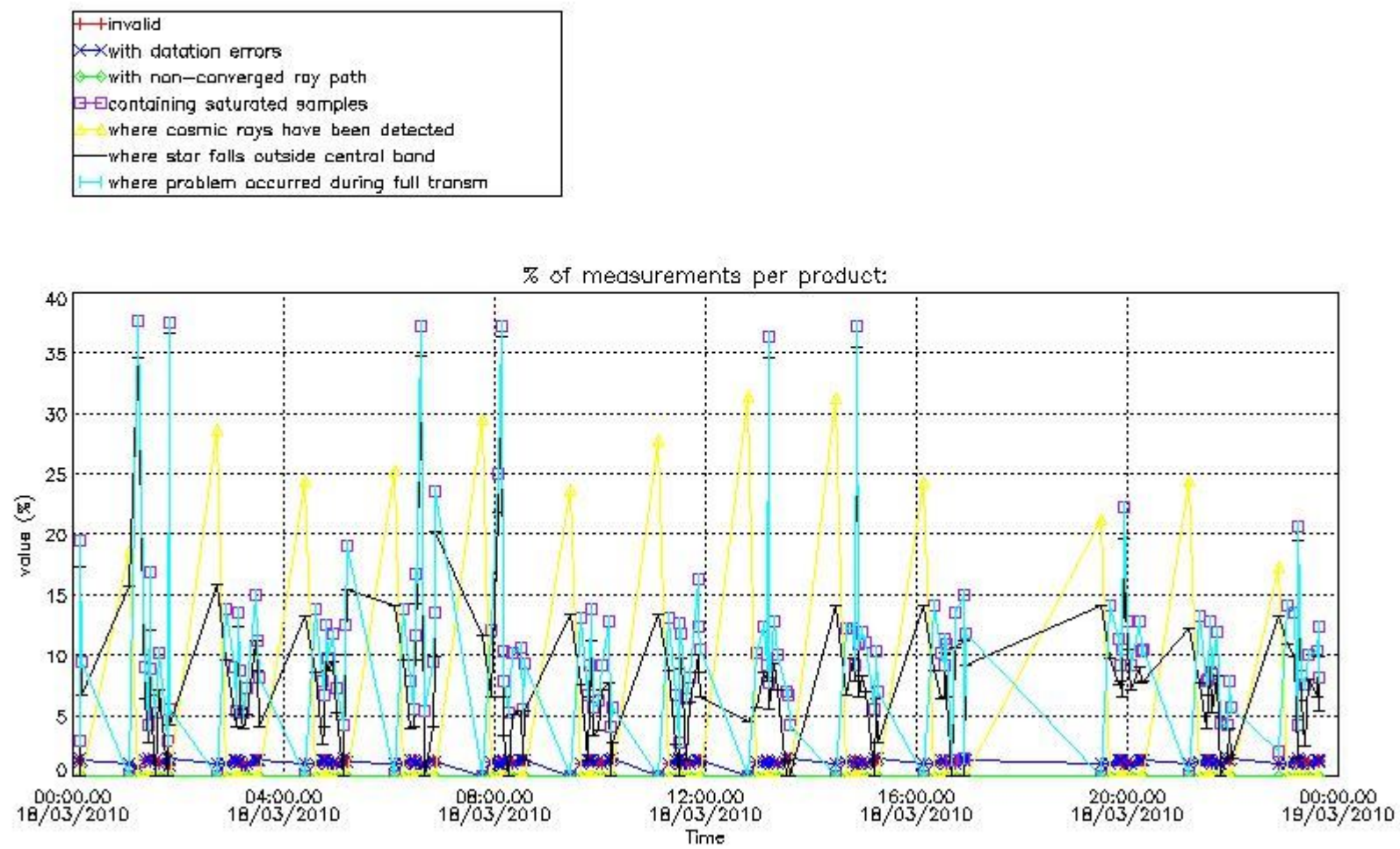
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

4.1 Plot quality information per product (time dependant) coming from level 1b processing

4.1.1 Plot level 1 quality information per product (time dependant): ENVISAT ASCENDING passes

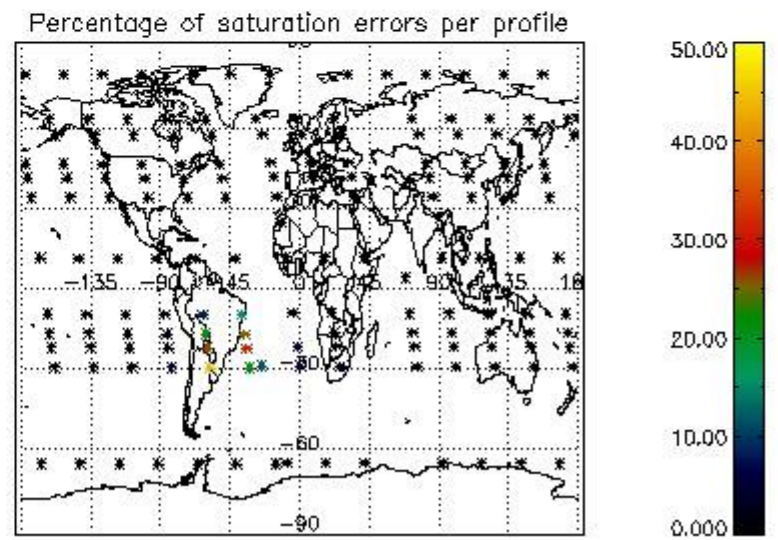
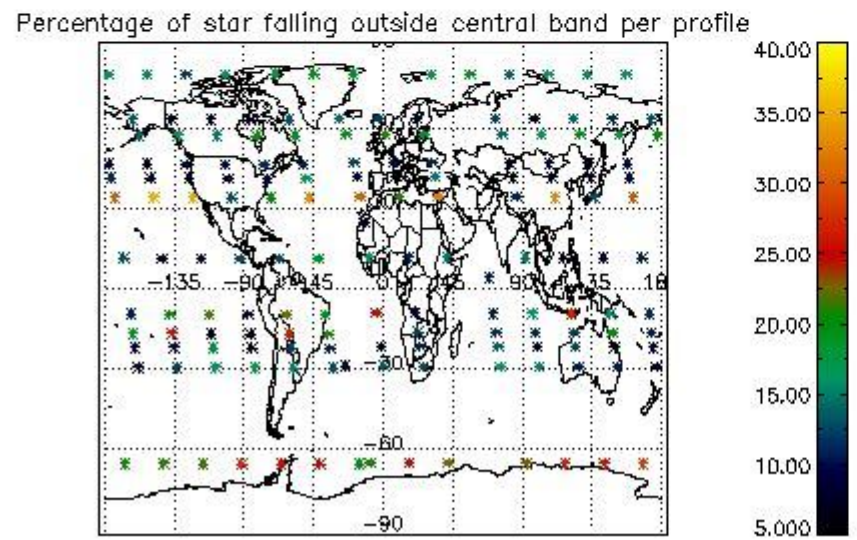
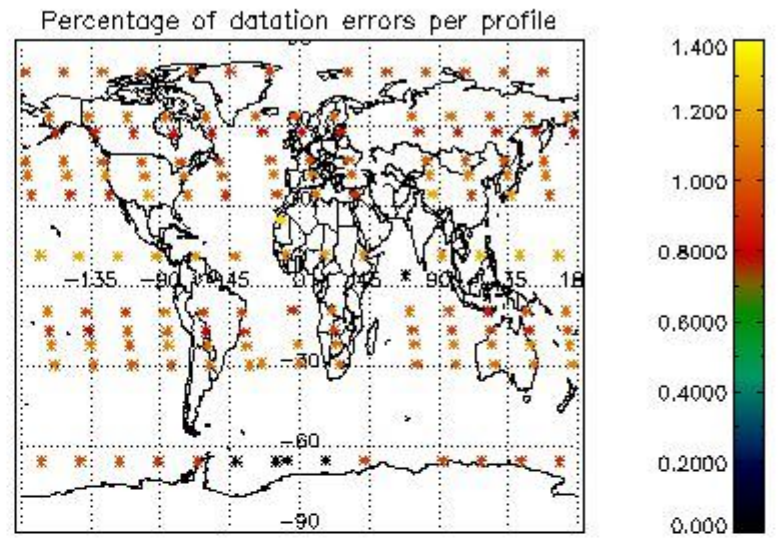
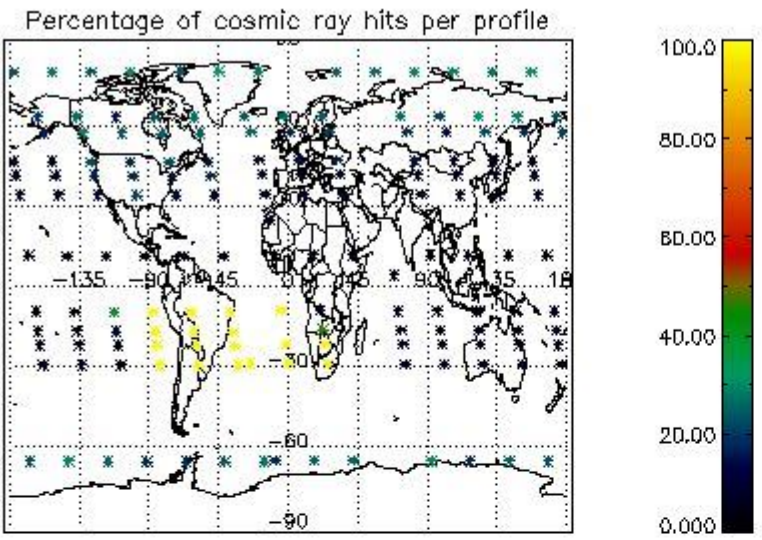


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

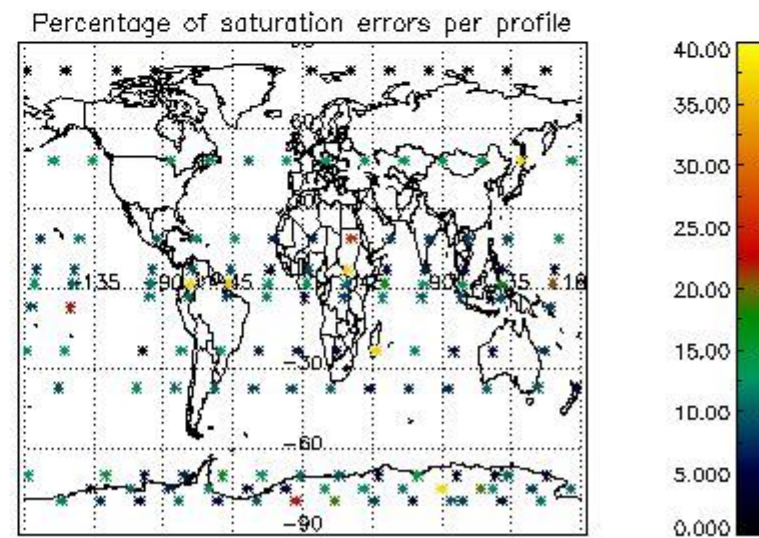
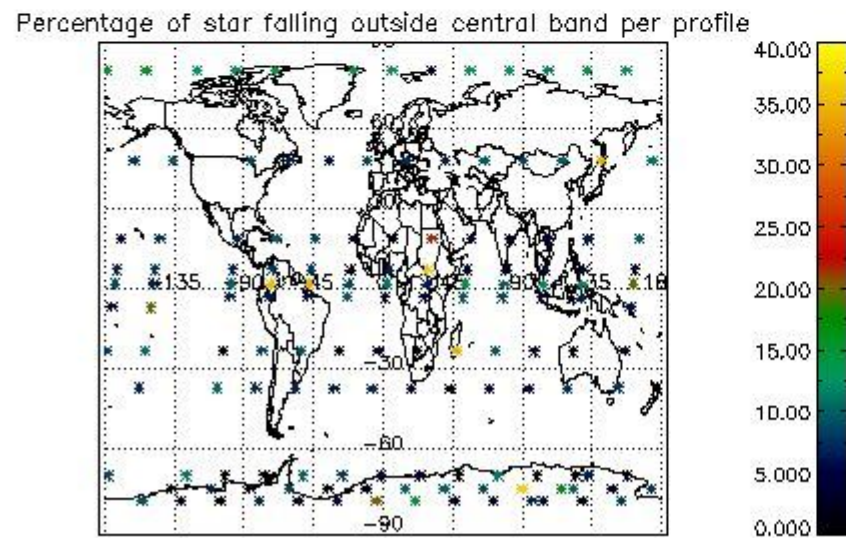
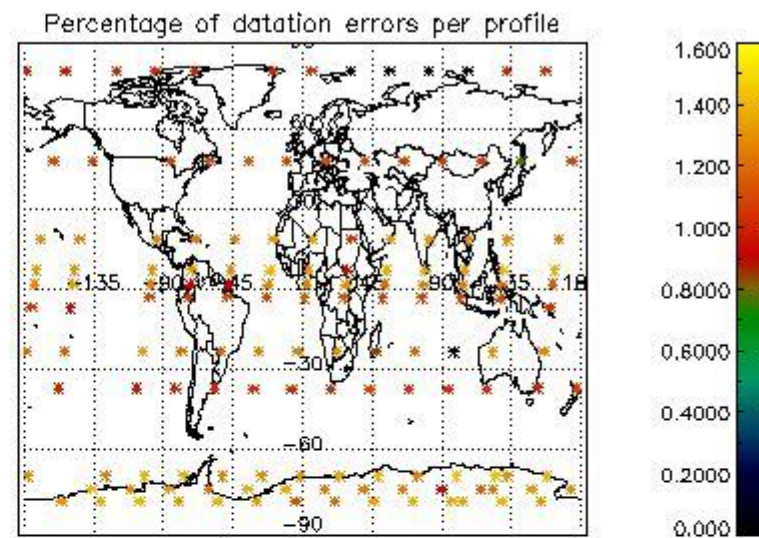
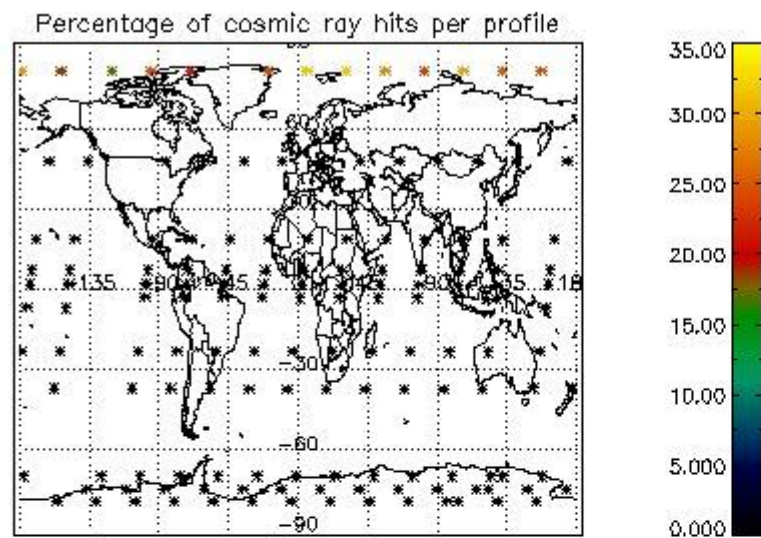


4.2 Plot quality information per product coming from level 1b processing (world map)

4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes



4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/o3_std of the level 2 products. The table below shows the statistics for given STD ranges.

The statistics are given with respect to the overall valid production:

- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

The 'Criteria' is applied to valid points of dark limb products:

- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

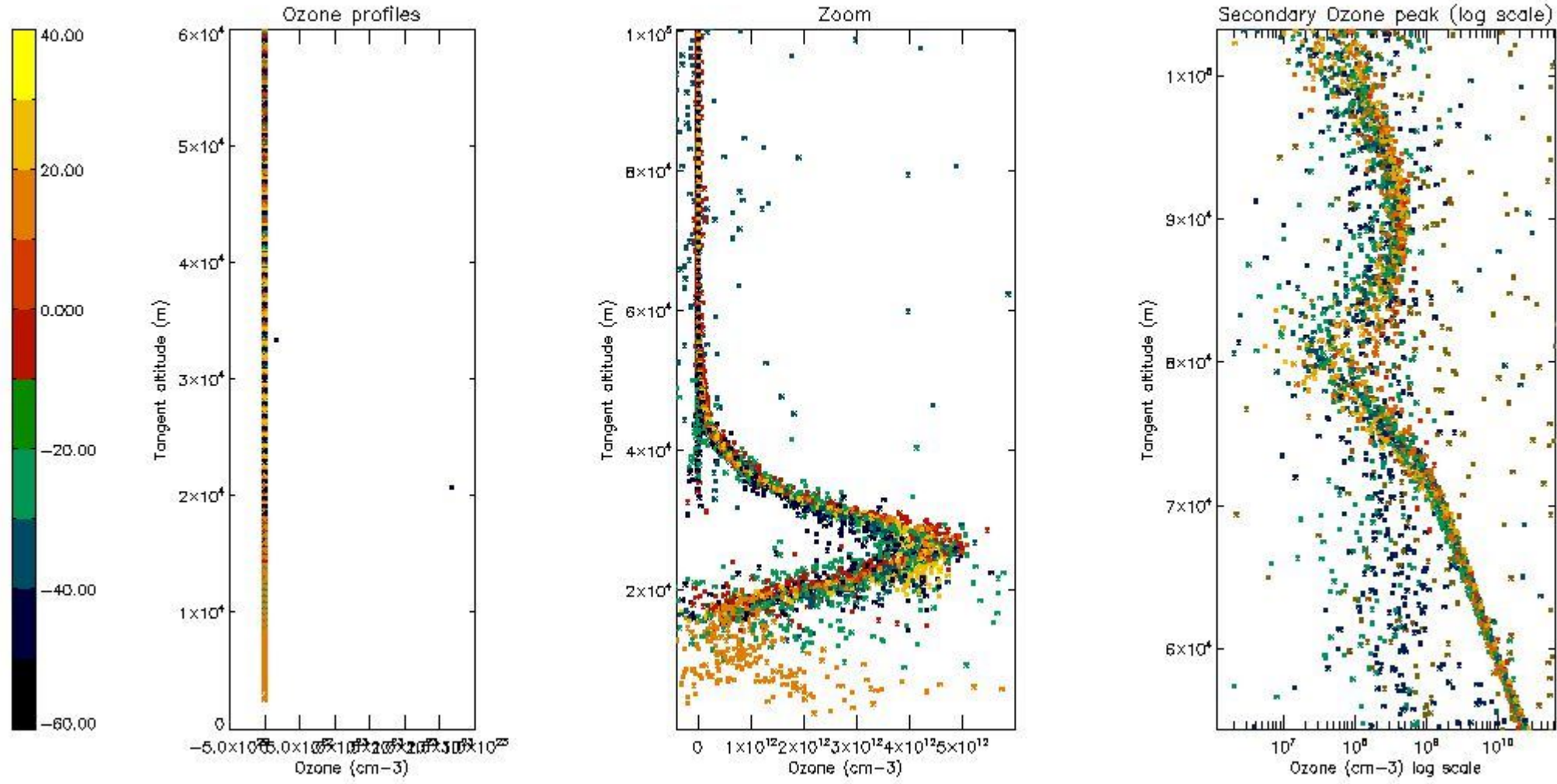
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	32
STD < 20	14

STD < 10	10
STD < 5	7

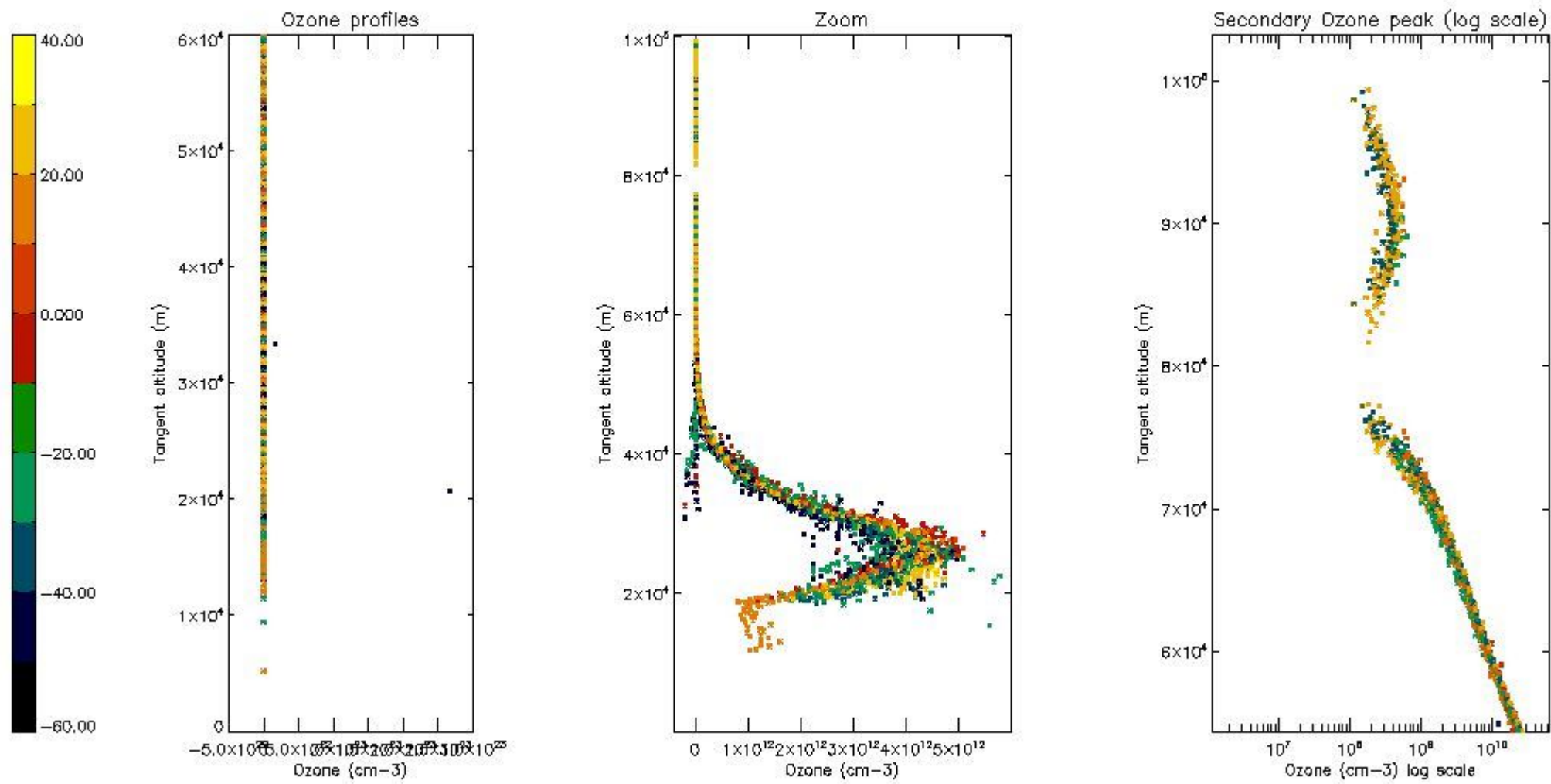
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



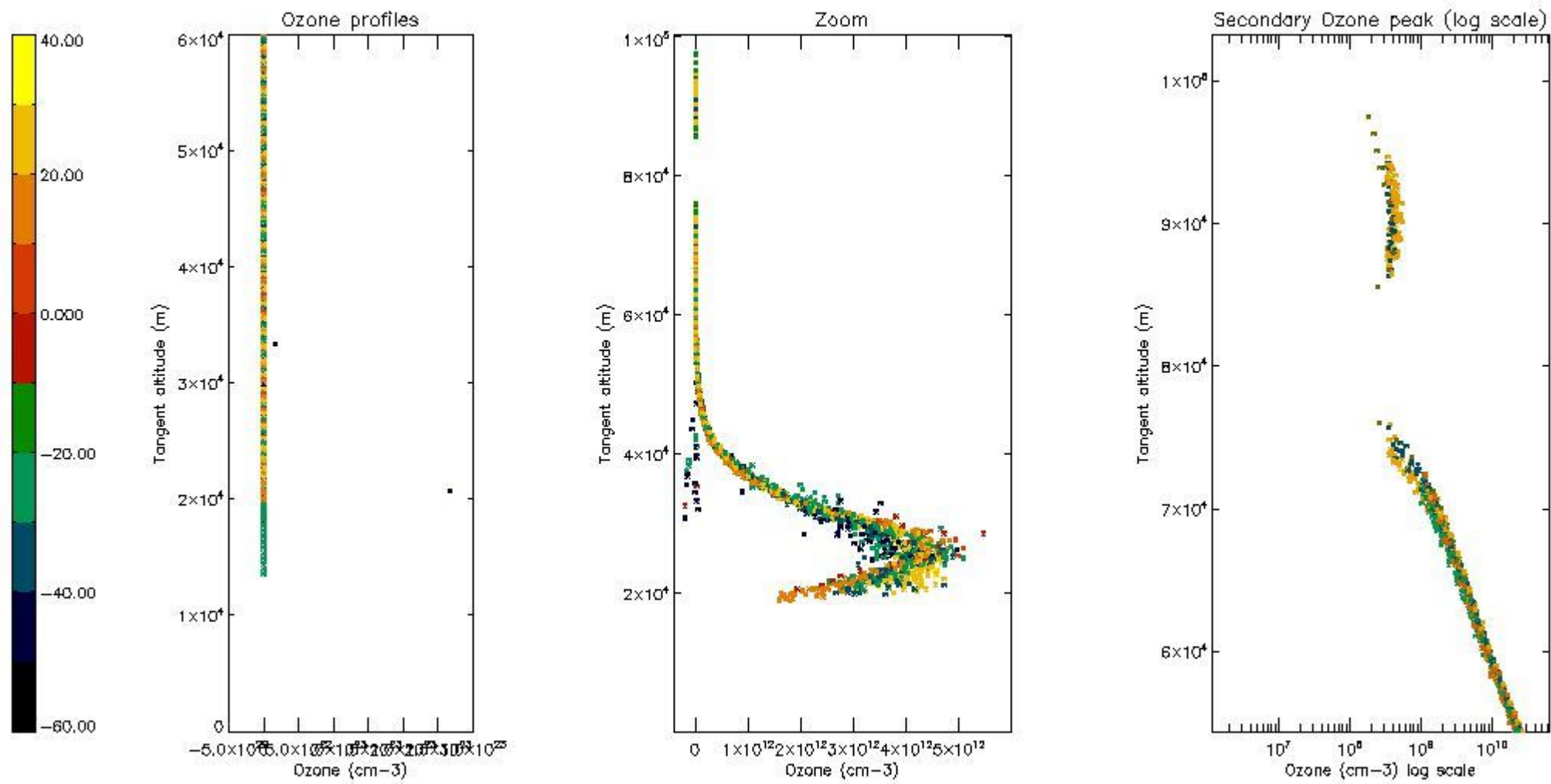
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



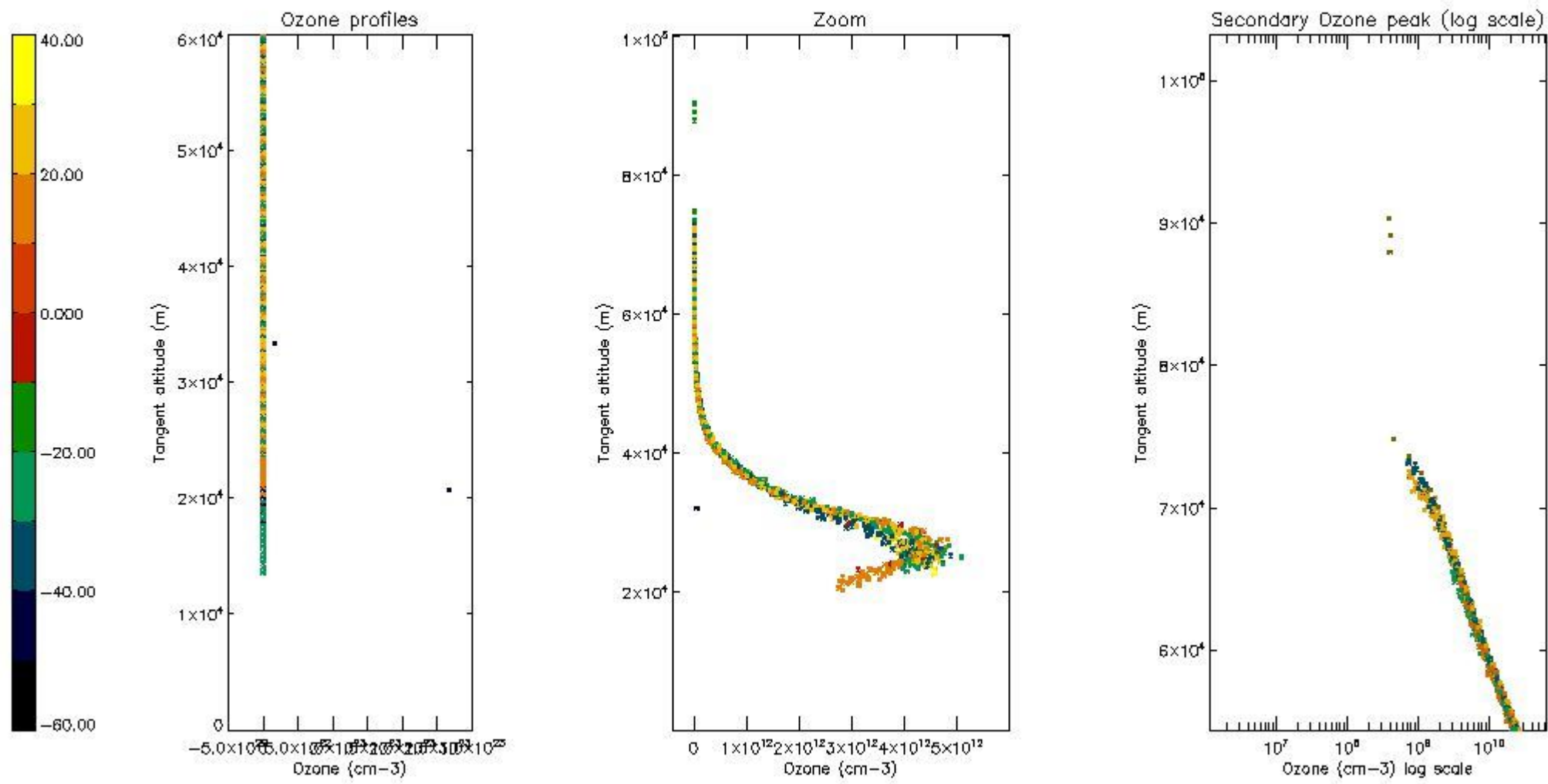
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



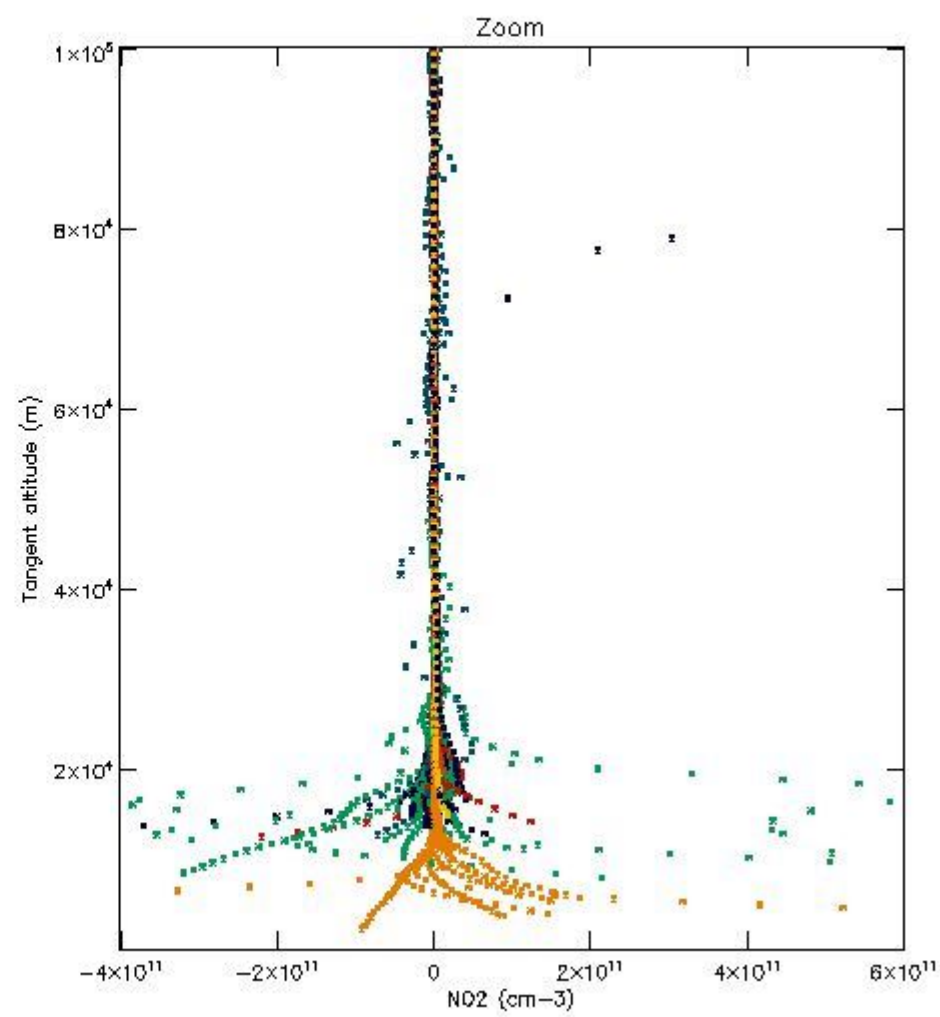
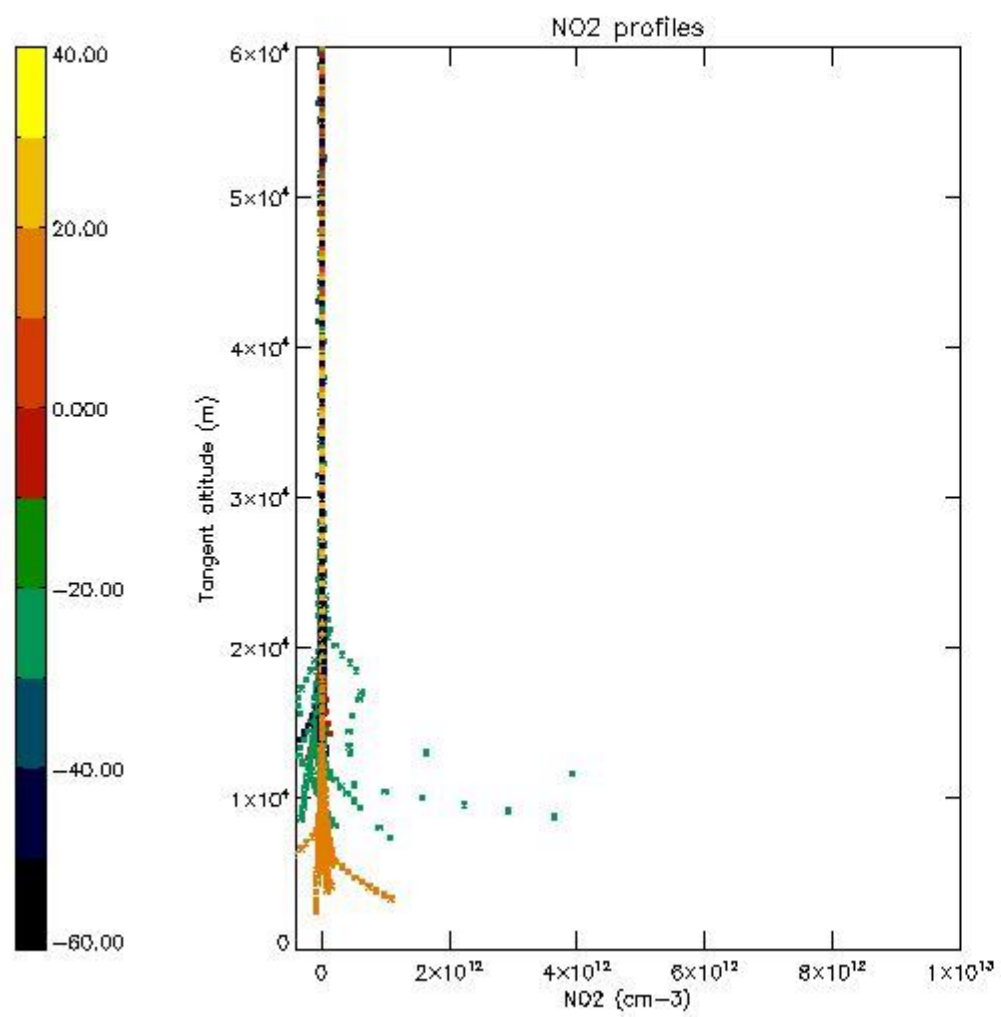
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



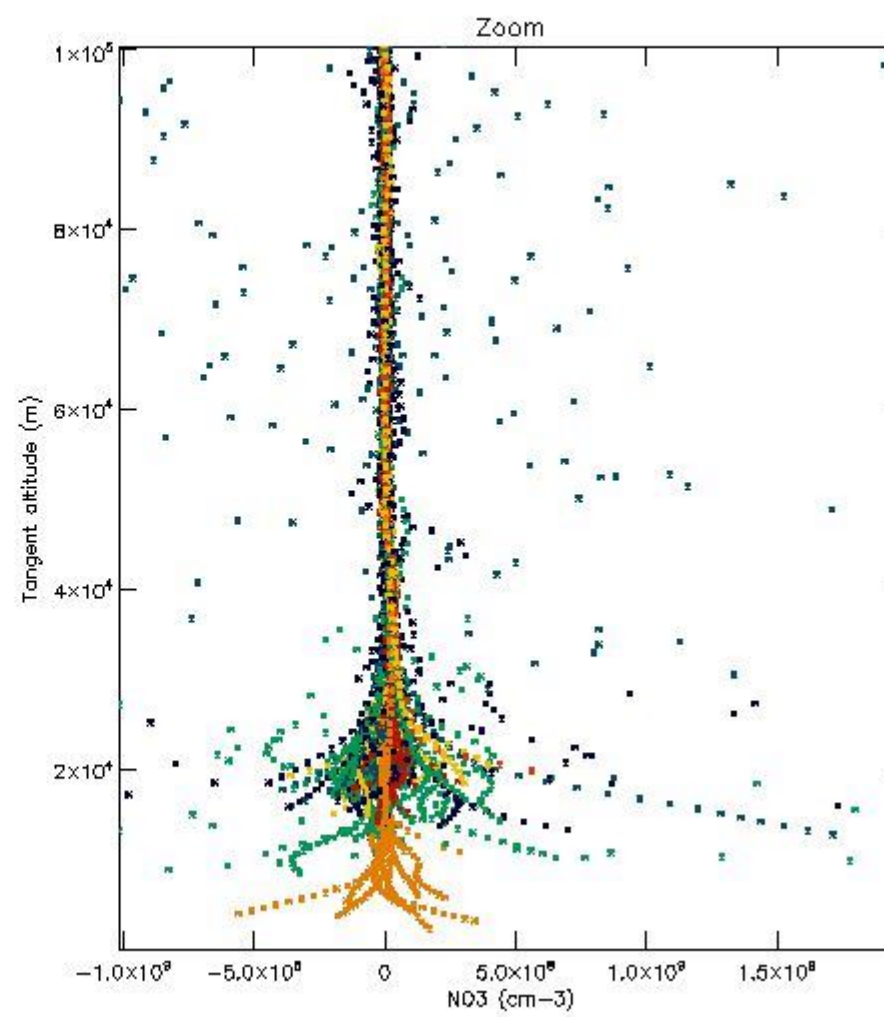
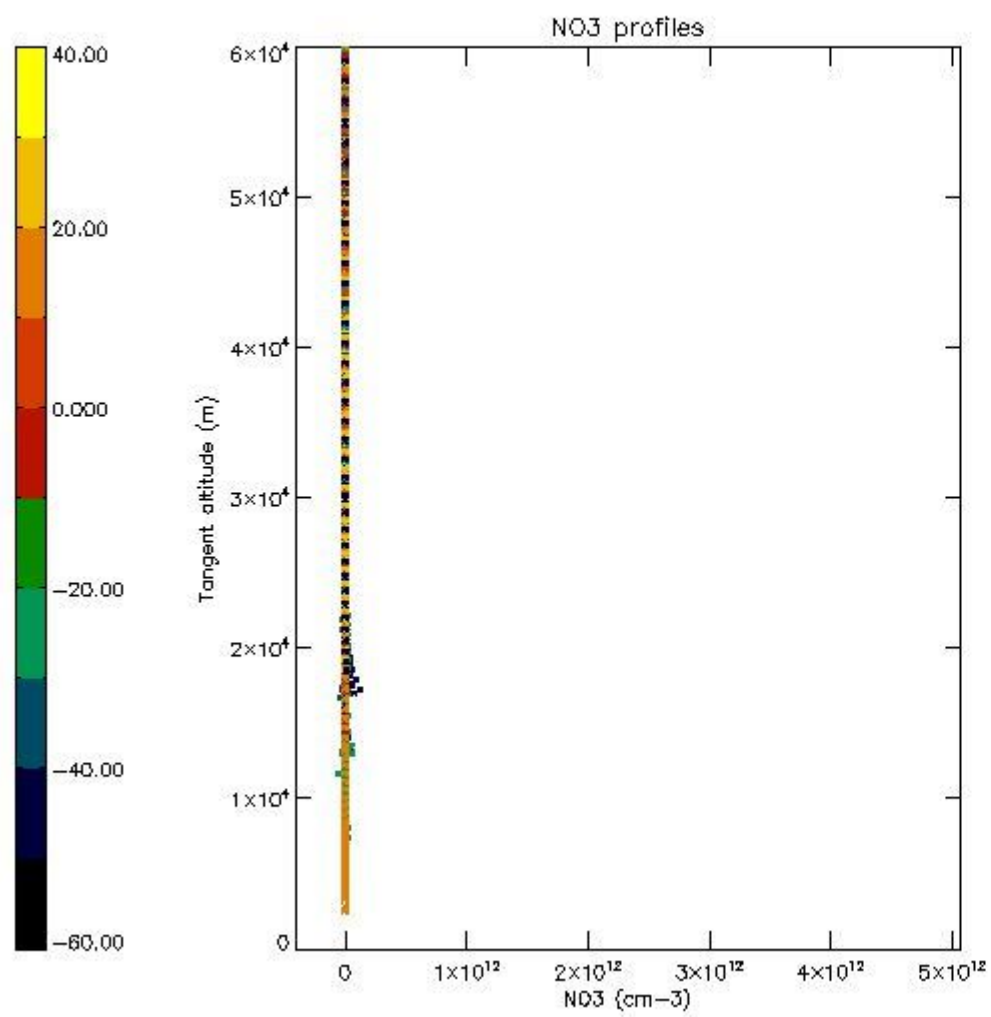
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



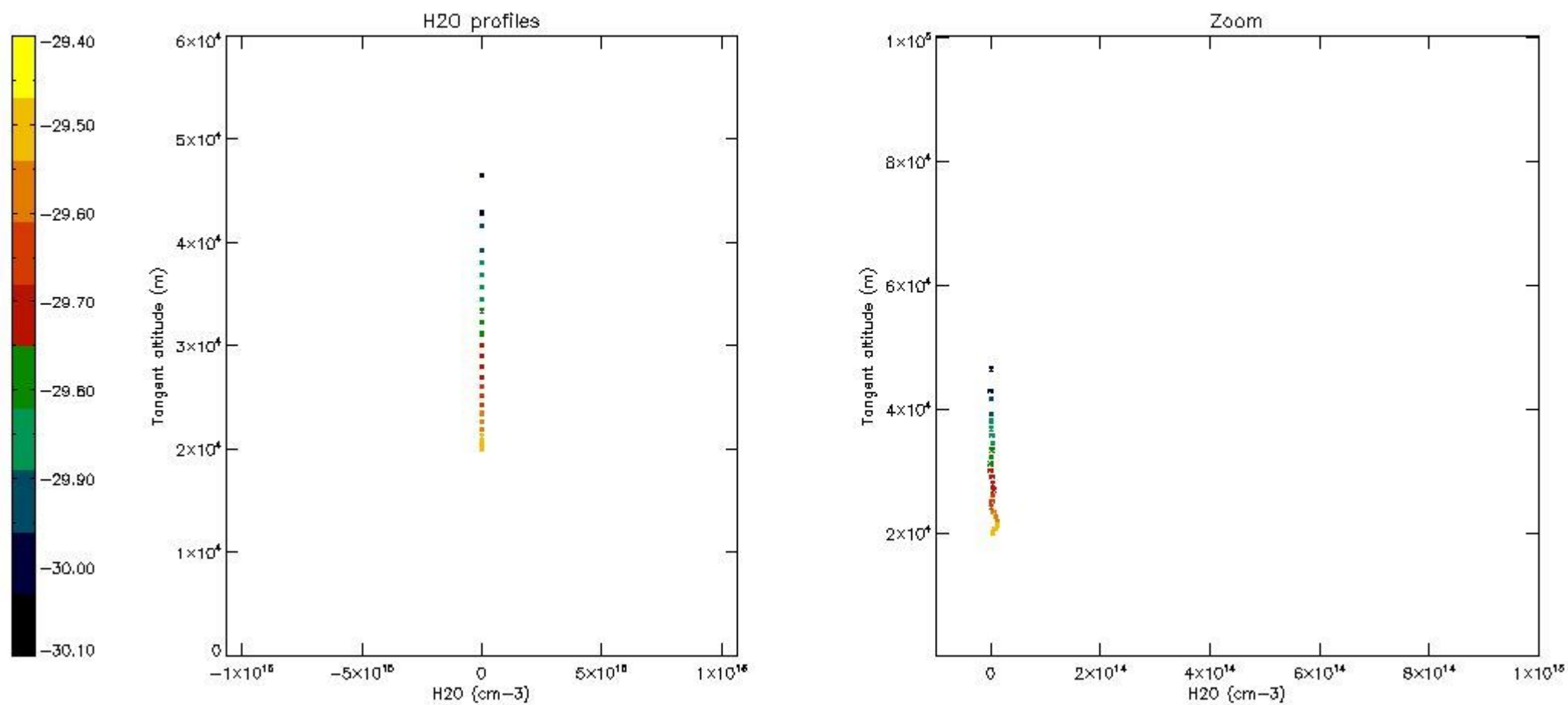
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



5.8 Plot H₂O profiles for all STD (only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors)

The colorbar represents the latitude.



6. Auxiliary Data Files used for the production reported in section 2

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	18-MAR-2010 00:07:02
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	18-MAR-2010 00:07:02
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	18-MAR-2010 00:07:02

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[5.8 Plot H2O profiles \(only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors\) for all STD](#)

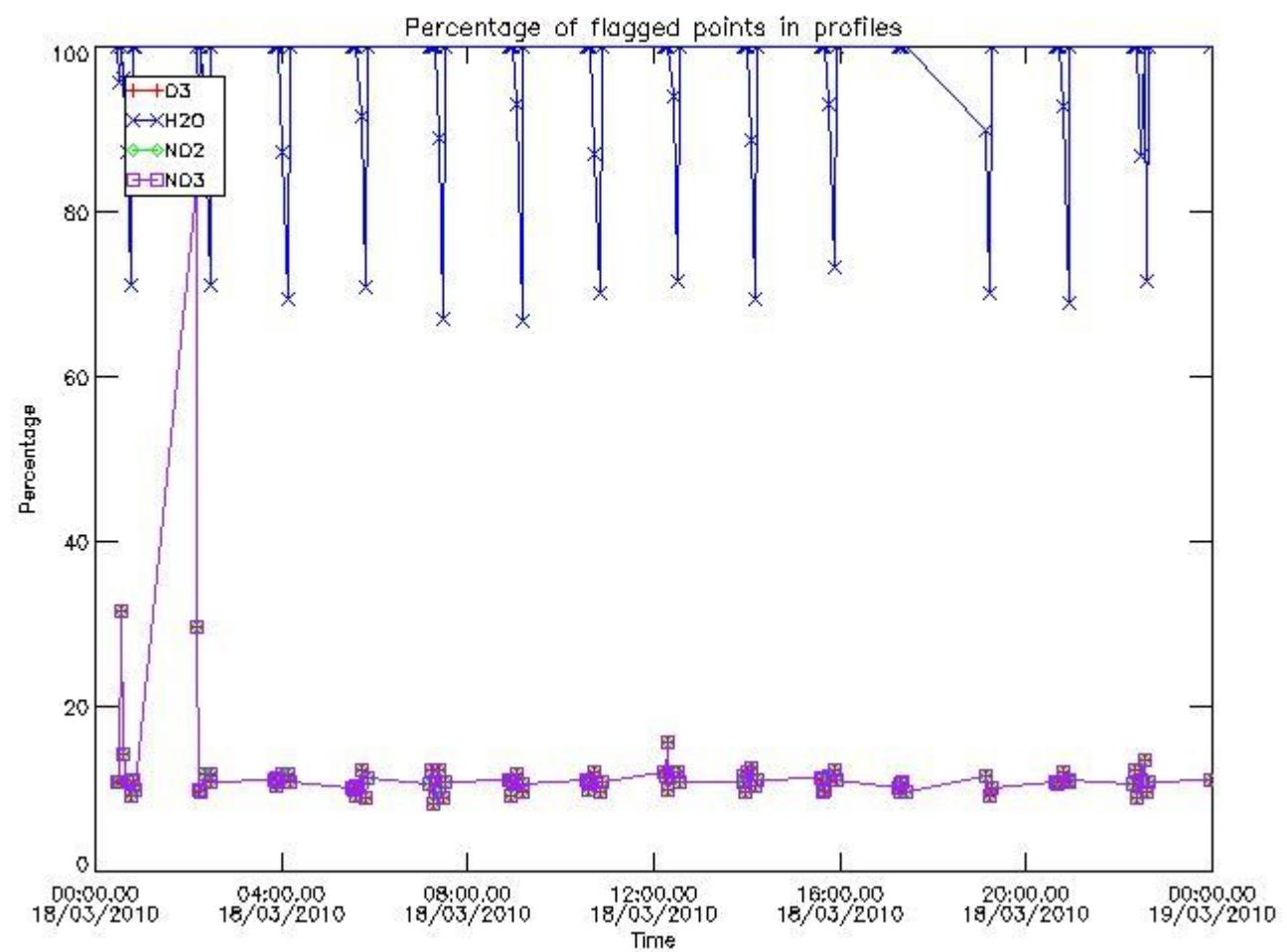
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280	GOM_NL__2PRFIN20100318_215810_000000362087_00444_42081_0207.N1	18-MAR-2010 21:58:10	Bright	35.500	92	53Eps Cyg	2.5000	4500.0	71	42081	No
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285	GOM_NL__2PRFIN20100318_222832_000000462087_00445_42082_0198.N1	18-MAR-2010 22:28:32	Dark	45.500	141	Bet Ara	2.8400	4600.0	91	42082	No
286	GOM_NL__2PRFIN20100318_223211_000000382087_00445_42082_0199.N1	18-MAR-2010 22:32:11	Dark	38.000	134	Bet TrA	2.8100	6600.0	76	42082	No
287	GOM_NL__2PRFIN20100318_223453_000000532087_00445_42082_0200.N1	18-MAR-2010 22:34:53	Dark	53.000	4	Alp1Cen	-0.010000	5800.0	106	42082	No
288	GOM_NL__2PRFIN20100318_223659_000000482087_00445_42082_0201.N1	18-MAR-2010 22:36:59	Dark	47.500	78	Alp Lup	2.3040	28000.	95	42082	No
289	GOM_NL__2PRFIN20100318_223829_000000532087_00445_42082_0202.N1	18-MAR-2010 22:38:29	Straylight	52.500	81	Eta Cen	2.3560	28000.	105	42082	No
290	GOM_NL__2PRFIN20100318_224133_000000612087_00445_42082_0203.N1	18-MAR-2010 22:41:33	Straylight	60.500	54	5The Cen	2.0550	4500.0	121	42082	No
291	GOM_NL__2PRFIN20100318_224315_000000502087_00445_42082_0204.N1	18-MAR-2010 22:43:15	Straylight	50.000	123	lot Cen	2.7500	10200.	100	42082	No
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297	GOM_NL__2PRFIN20100318_231458_000000442087_00445_42082_0210.N1	18-MAR-2010 23:14:58	Bright	43.500	36	50Alp UMa	1.8000	6300.0	87	42082	No
298	GOM_NL__2PRFIN20100318_231723_000000482087_00445_42082_0211.N1	18-MAR-2010 23:17:23	Bright	48.000	55	79Zet UMa	2.0600	10200.	96	42082	No
299	GOM_NL__2PRFIN20100318_232157_000000402087_00445_42082_0212.N1	18-MAR-2010 23:21:57	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	42082	No
300	GOM_NL__2PRFIN20100318_232552_000000502087_00445_42082_0213.N1	18-MAR-2010 23:25:52	Bright	50.000	119	14Eta Dra	2.7270	4700.0	100	42082	No
301	GOM_NL__2PRFIN20100318_233526_000000392087_00445_42082_0214.N1	18-MAR-2010 23:35:26	Bright	38.500	19	50Alp Cyg	1.2460	10500.	77	42082	No
302	GOM_NL__2PRFIN20100318_233701_000000412087_00445_42082_0215.N1	18-MAR-2010 23:37:01	Bright	40.500	66	37Gam Cyg	2.2080	5900.0	81	42082	No
303	GOM_NL__2PRFIN20100318_233846_000000372087_00445_42082_0216.N1	18-MAR-2010 23:38:46	Bright	37.000	92	53Eps Cyg	2.5000	4500.0	74	42082	No
304	GOM_NL__2PRFIN20100318_234718_000000512087_00445_42082_0217.N1	18-MAR-2010 23:47:18	Twilight	51.000	11	53Alp Aql	0.76500	8000.0	102	42082	No
305	GOM_NL__2PRFIN20100318_235744_000000462087_00445_42082_0218.N1	18-MAR-2010 23:57:44	Dark	46.000	155	41Pi Sgr	2.9000	6600.0	92	42082	No

3. Quality information per product

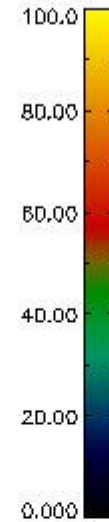
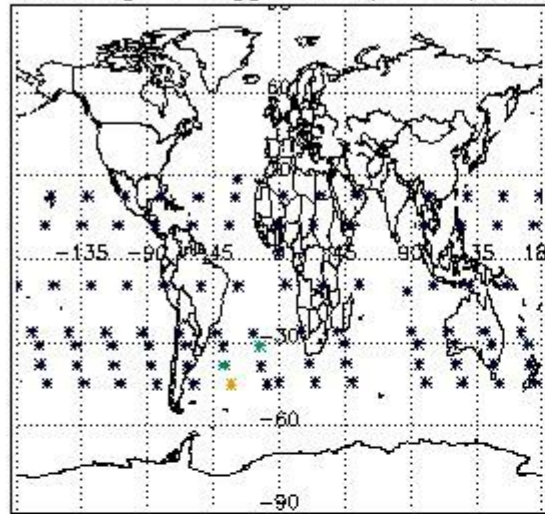
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

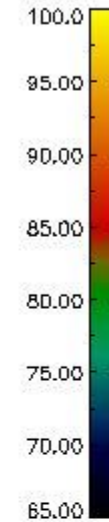
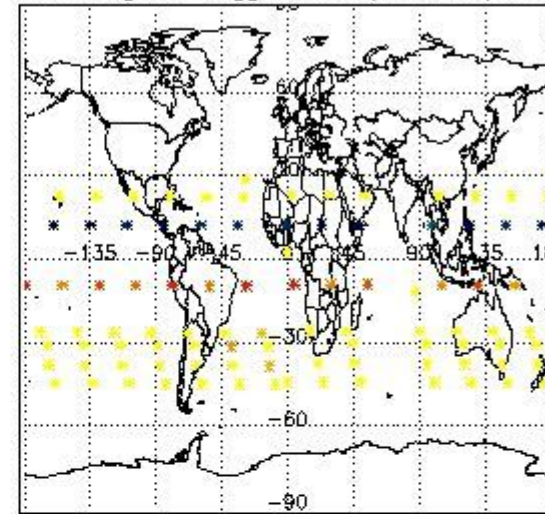


3.2 Plot quality information per product (world map)

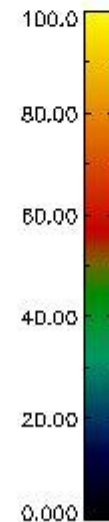
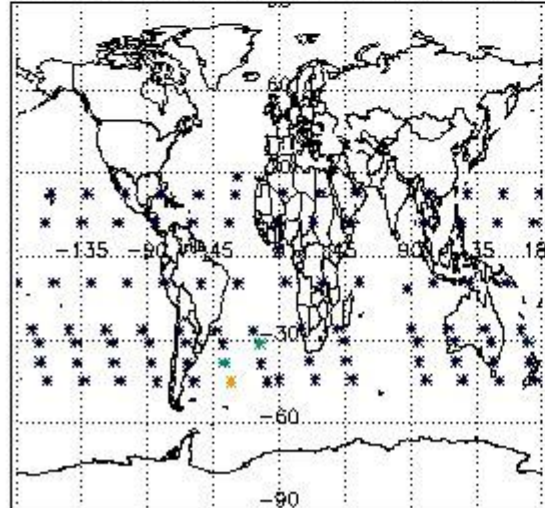
Percentage of flagged data per O3 profile



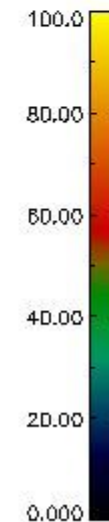
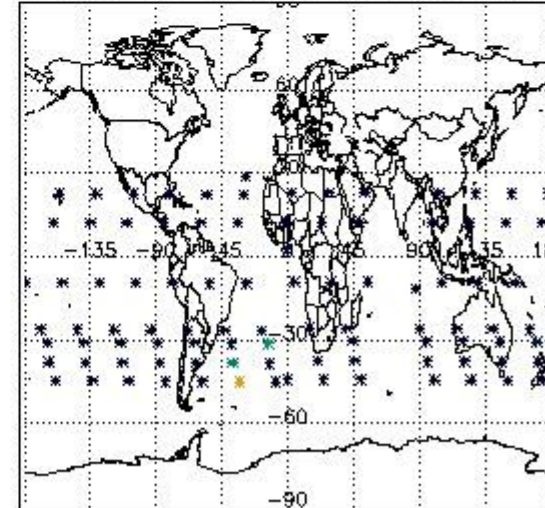
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

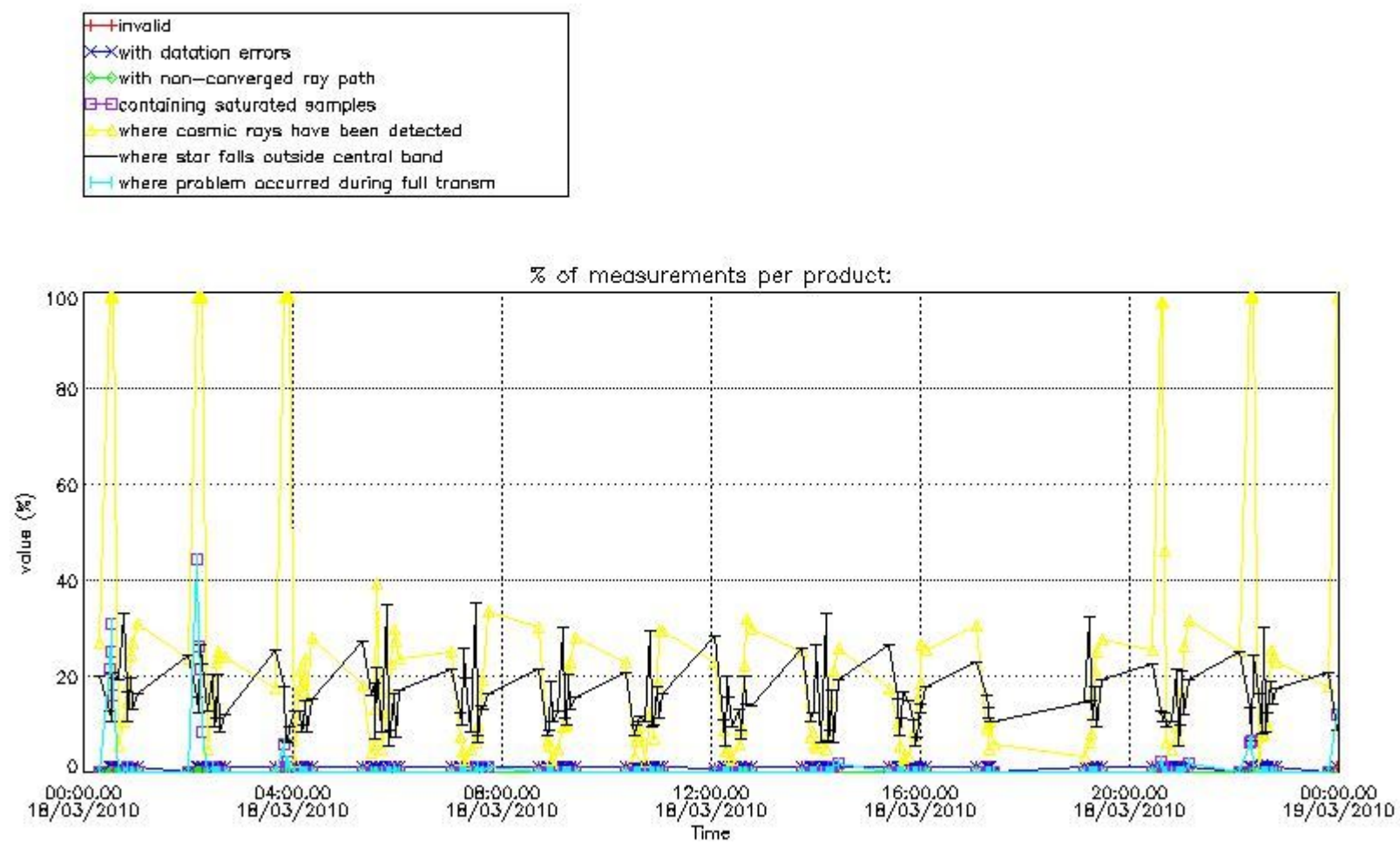


4. Level 1 quality information per product

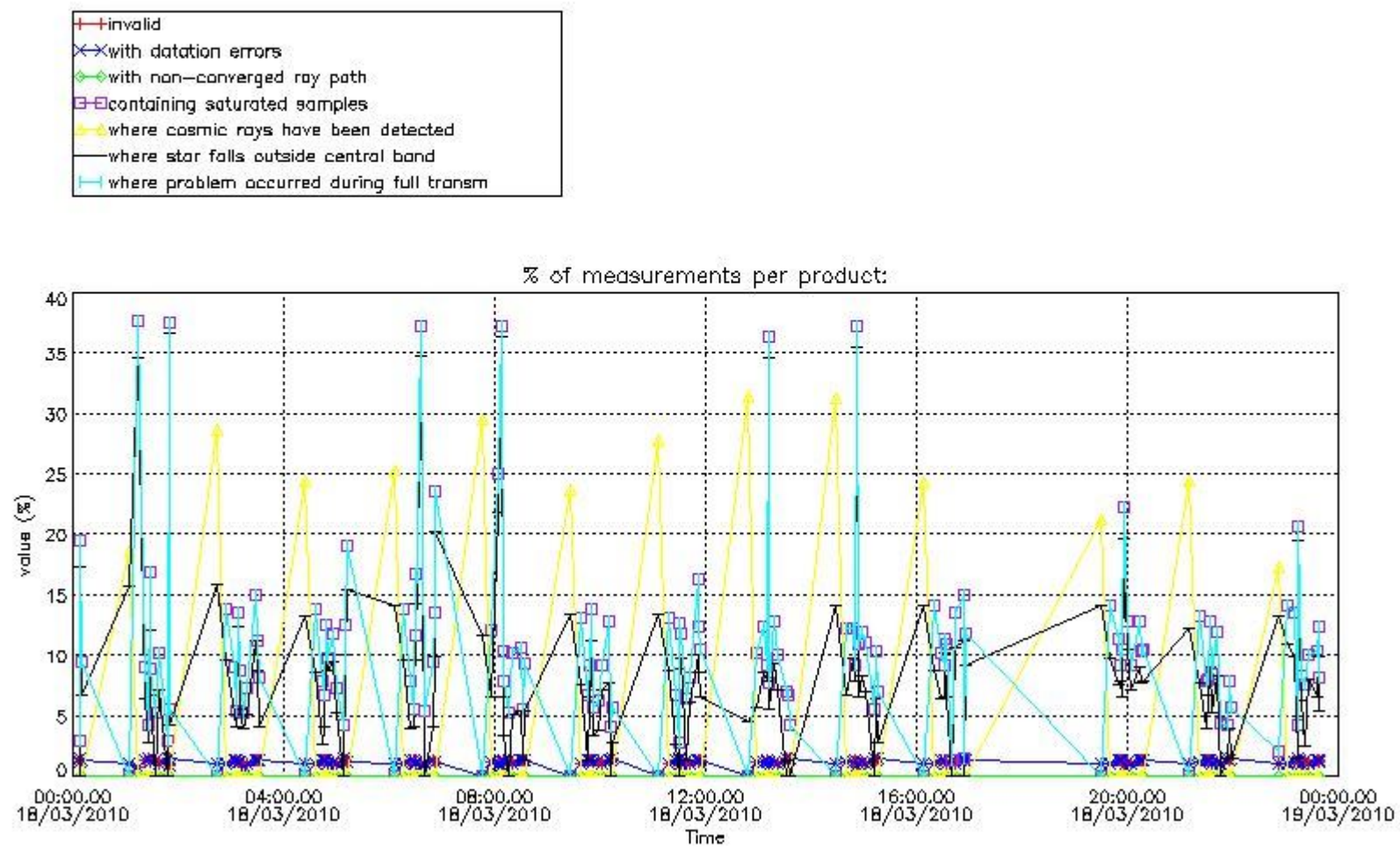
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

4.1 Plot quality information per product (time dependant) coming from level 1b processing

4.1.1 Plot level 1 quality information per product (time dependant): ENVISAT ASCENDING passes

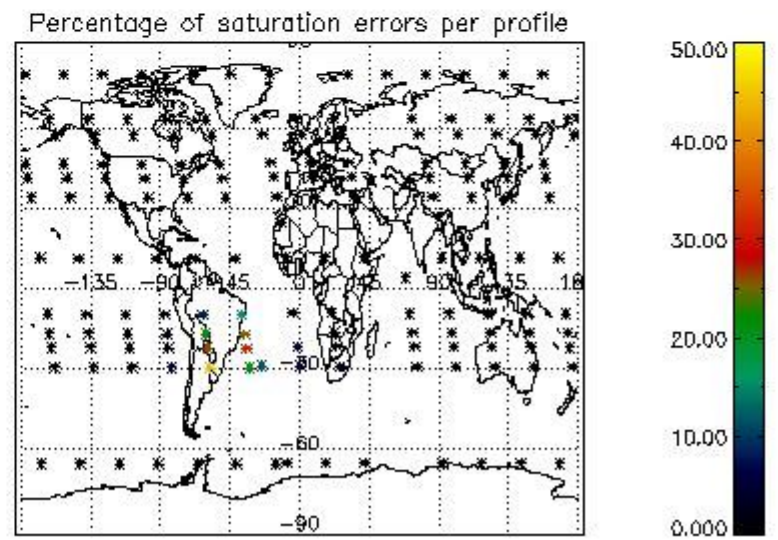
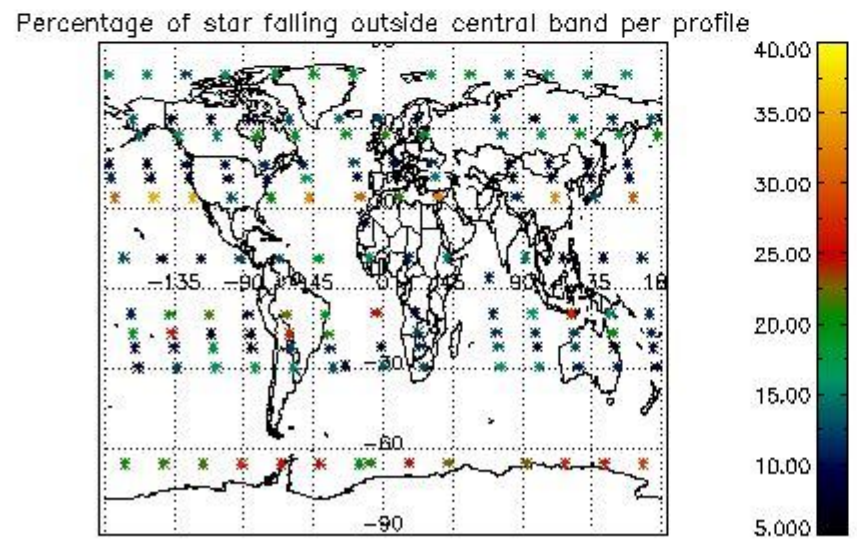
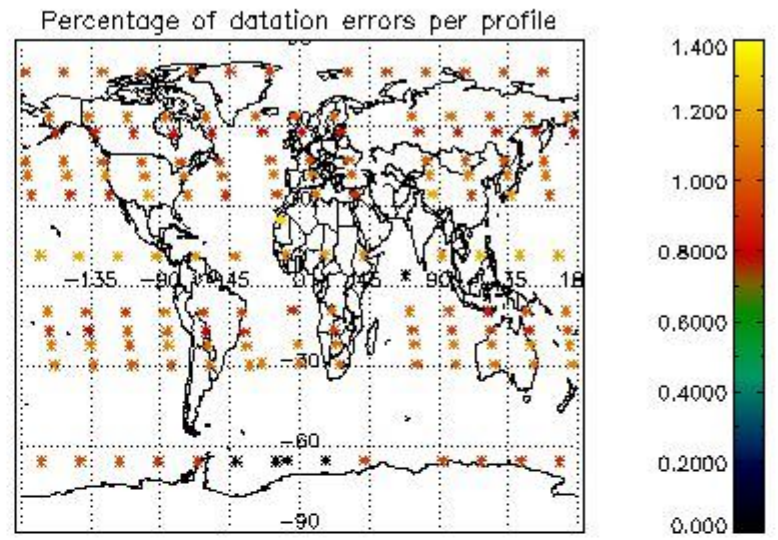
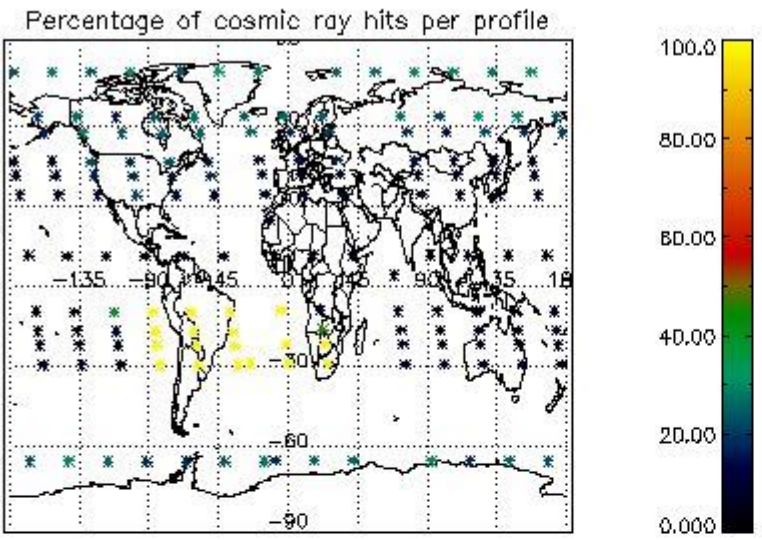


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

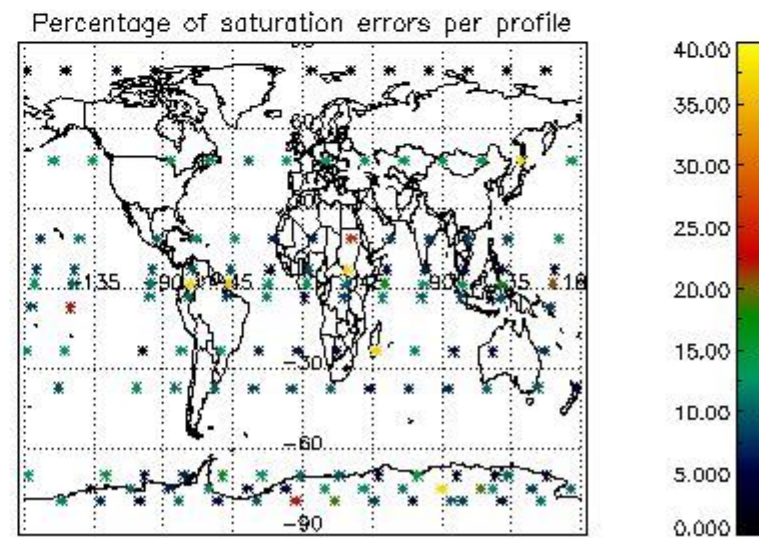
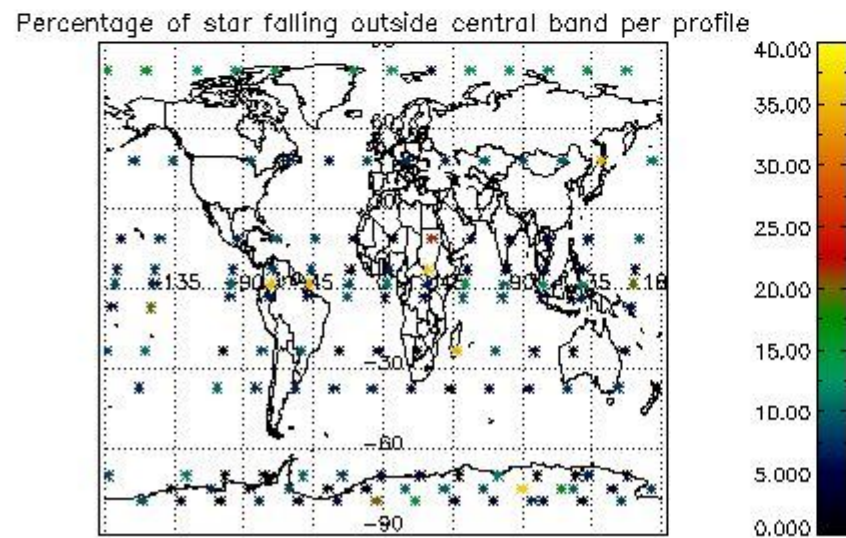
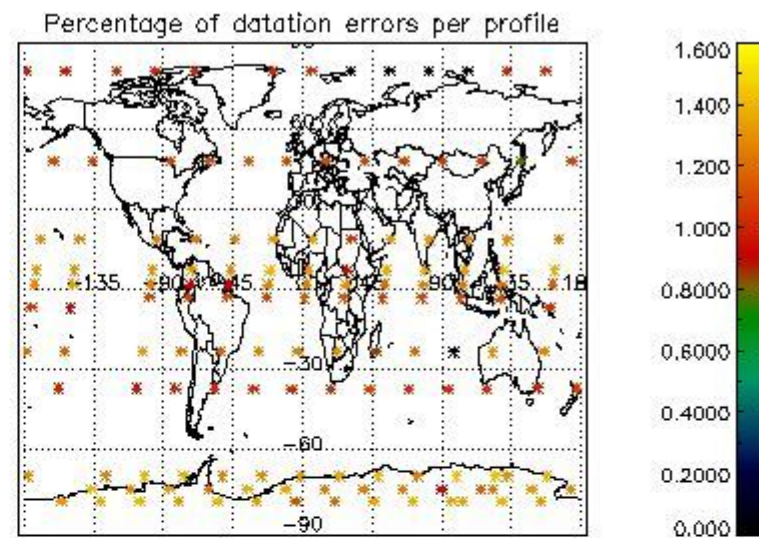
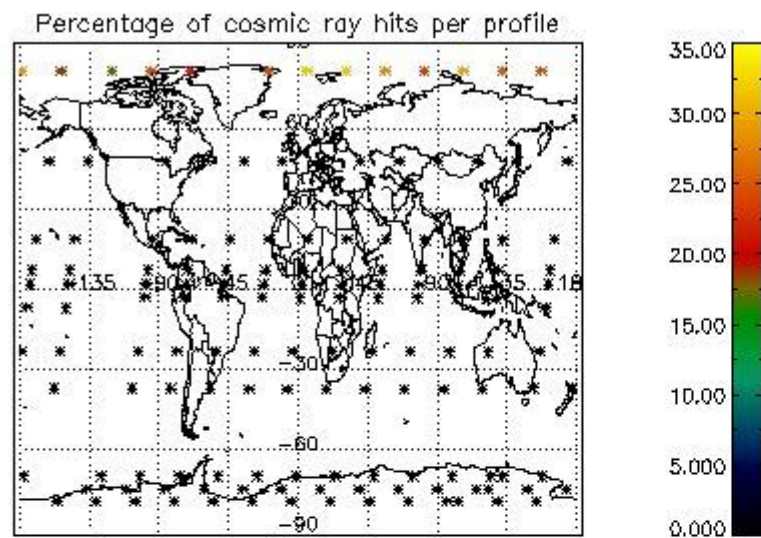


4.2 Plot quality information per product coming from level 1b processing (world map)

4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes



4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/o3_std of the level 2 products. The table below shows the statistics for given STD ranges.

The statistics are given with respect to the overall valid production:

- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

The 'Criteria' is applied to valid points of dark limb products:

- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

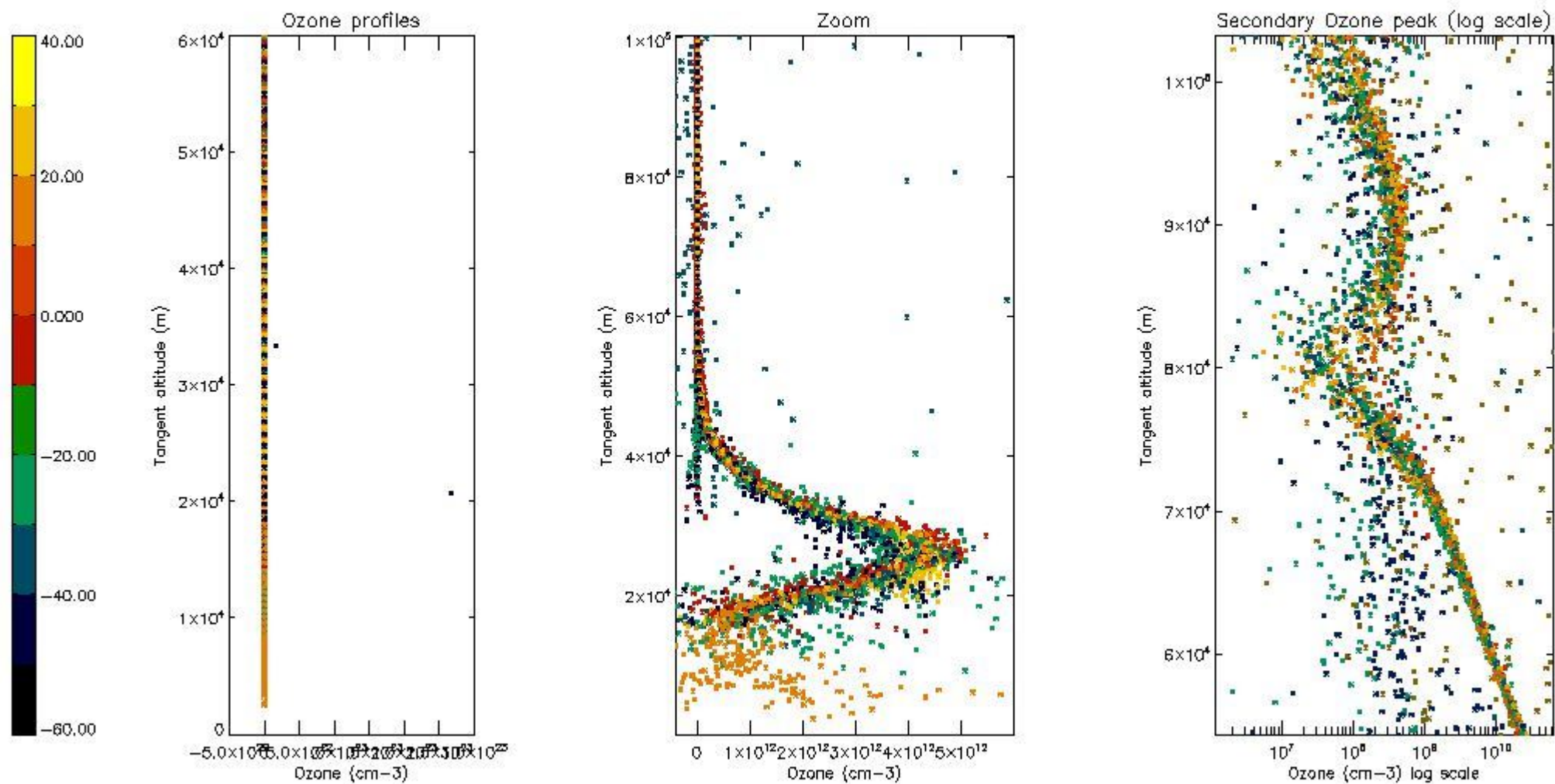
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	32
STD < 20	14

STD < 10	10
STD < 5	7

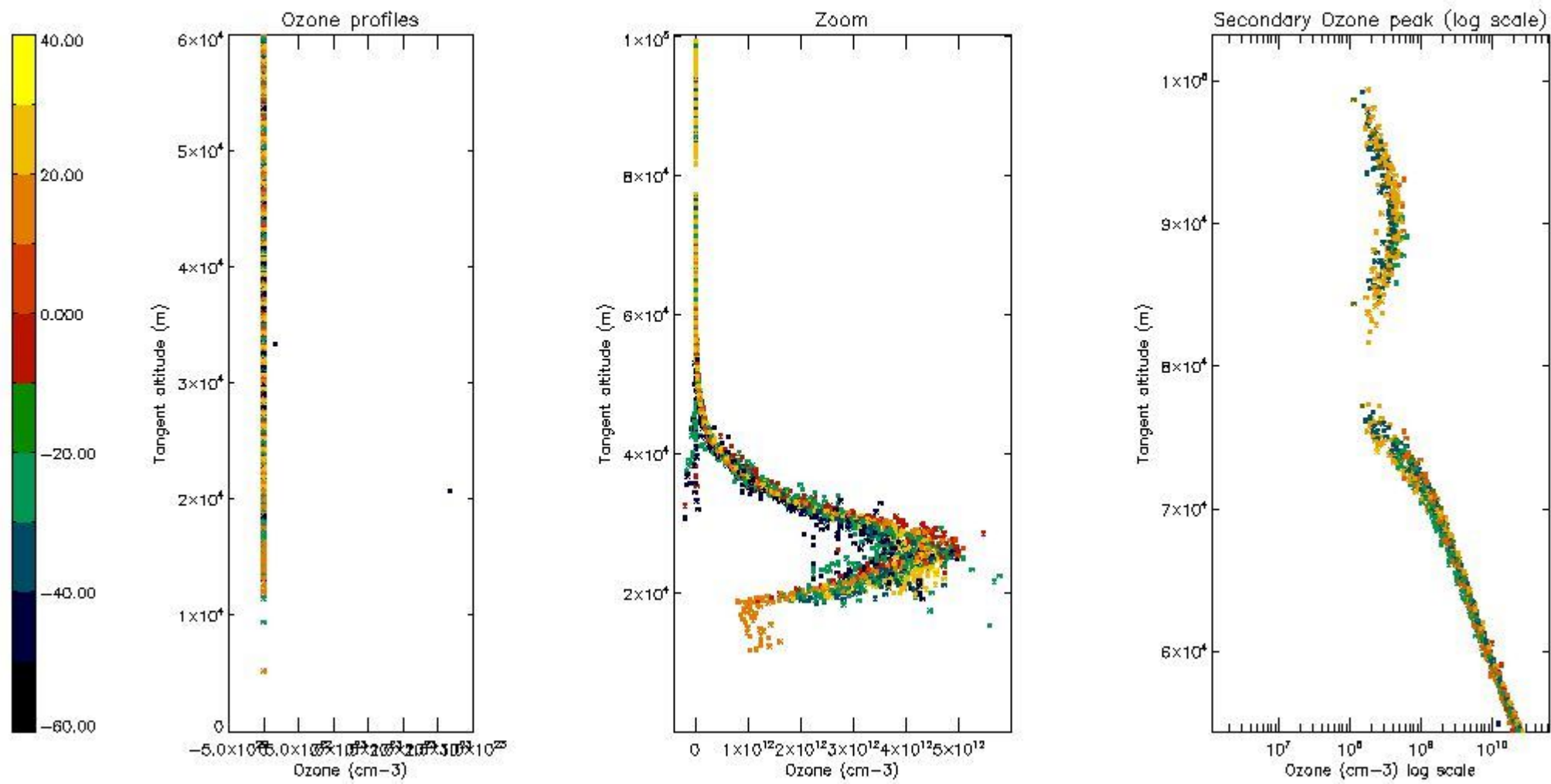
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



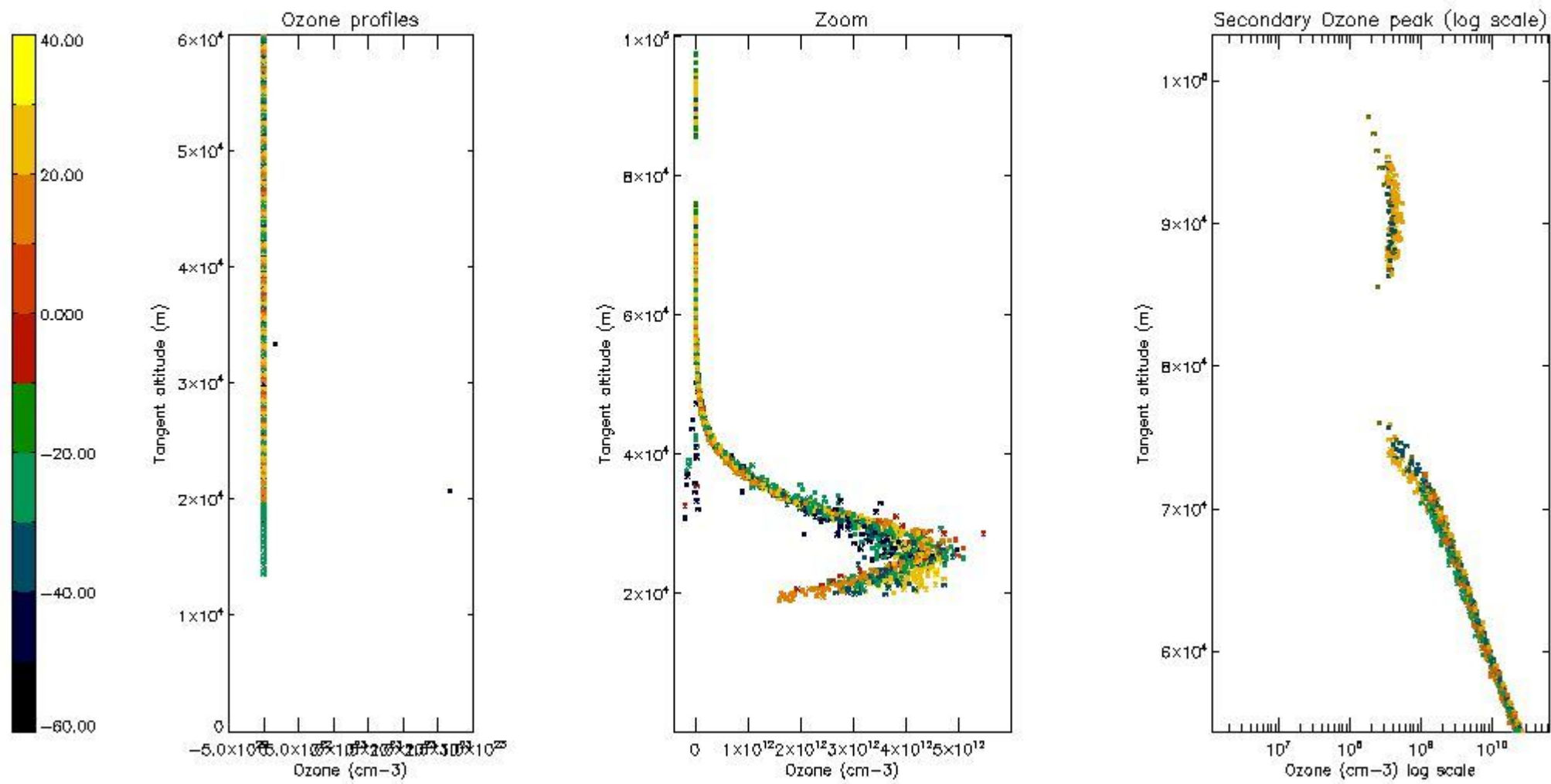
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



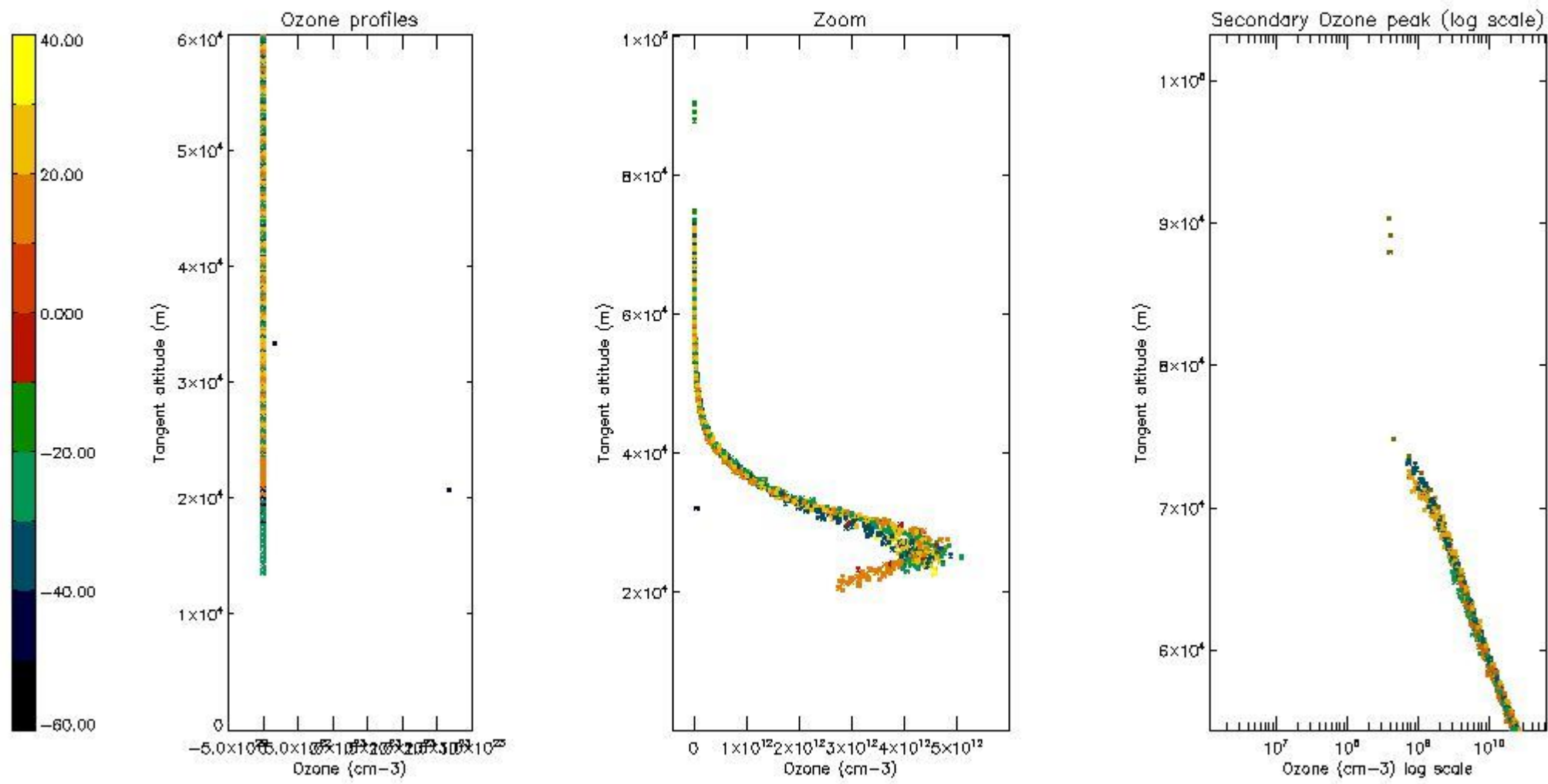
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



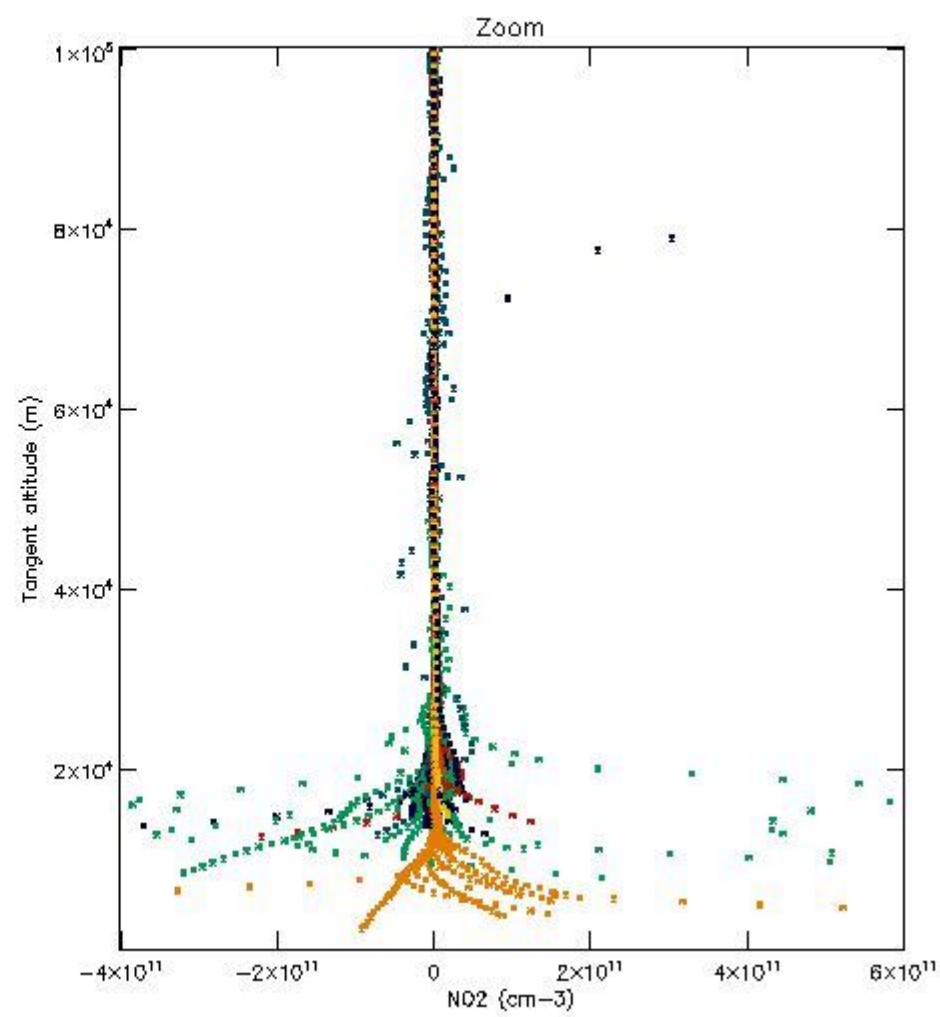
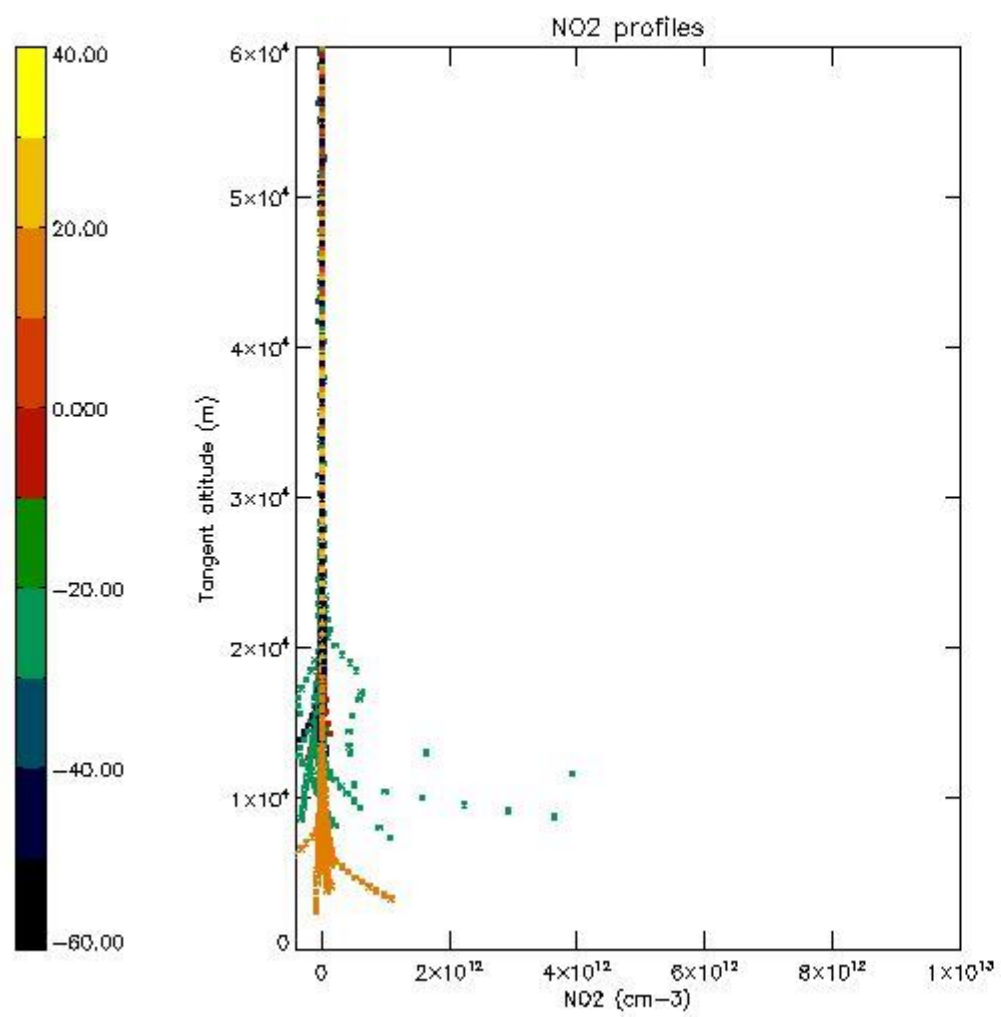
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



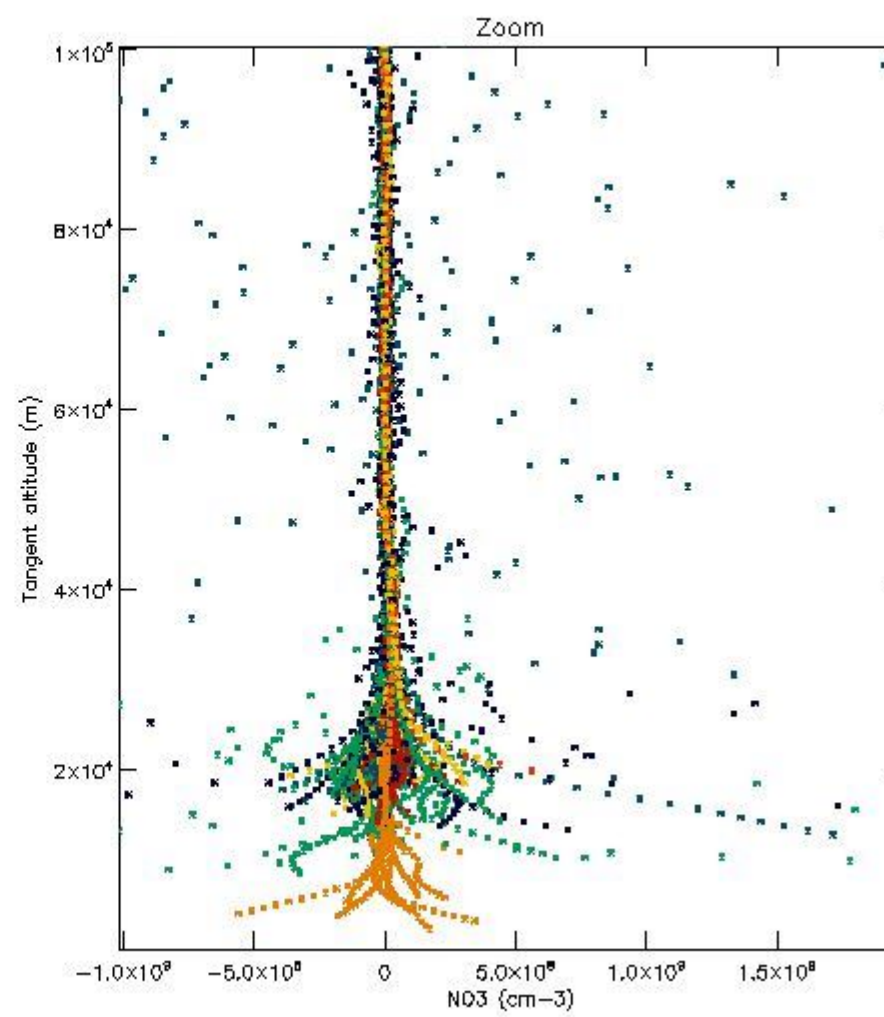
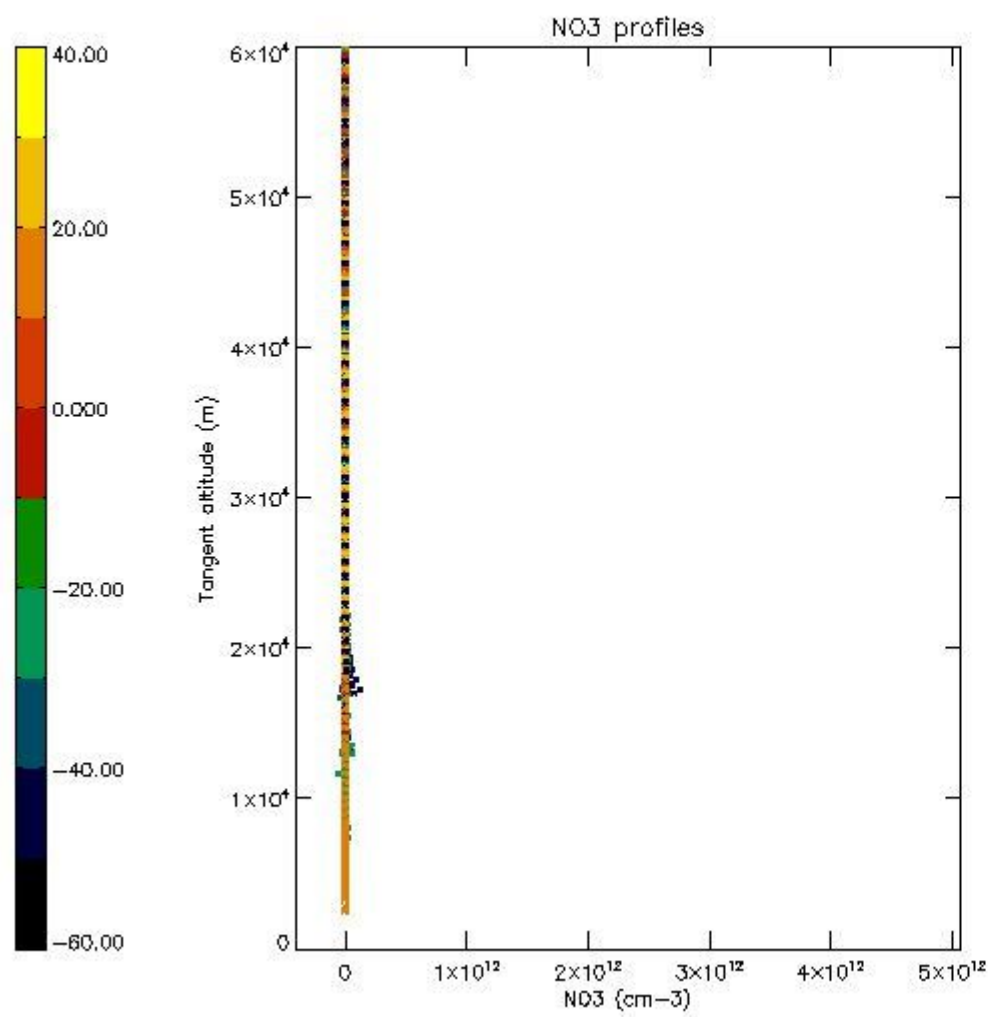
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



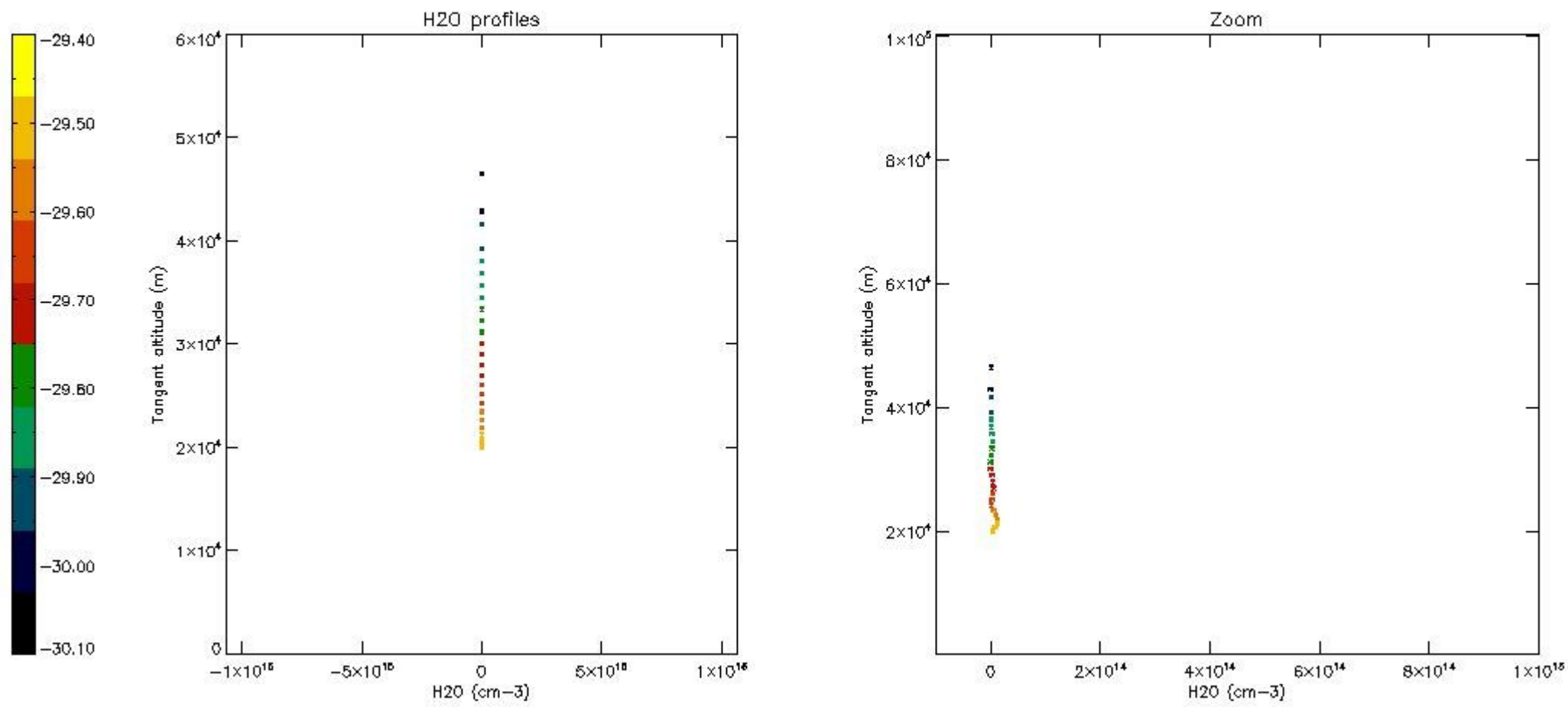
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



5.8 Plot H2O profiles for all STD (only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors)

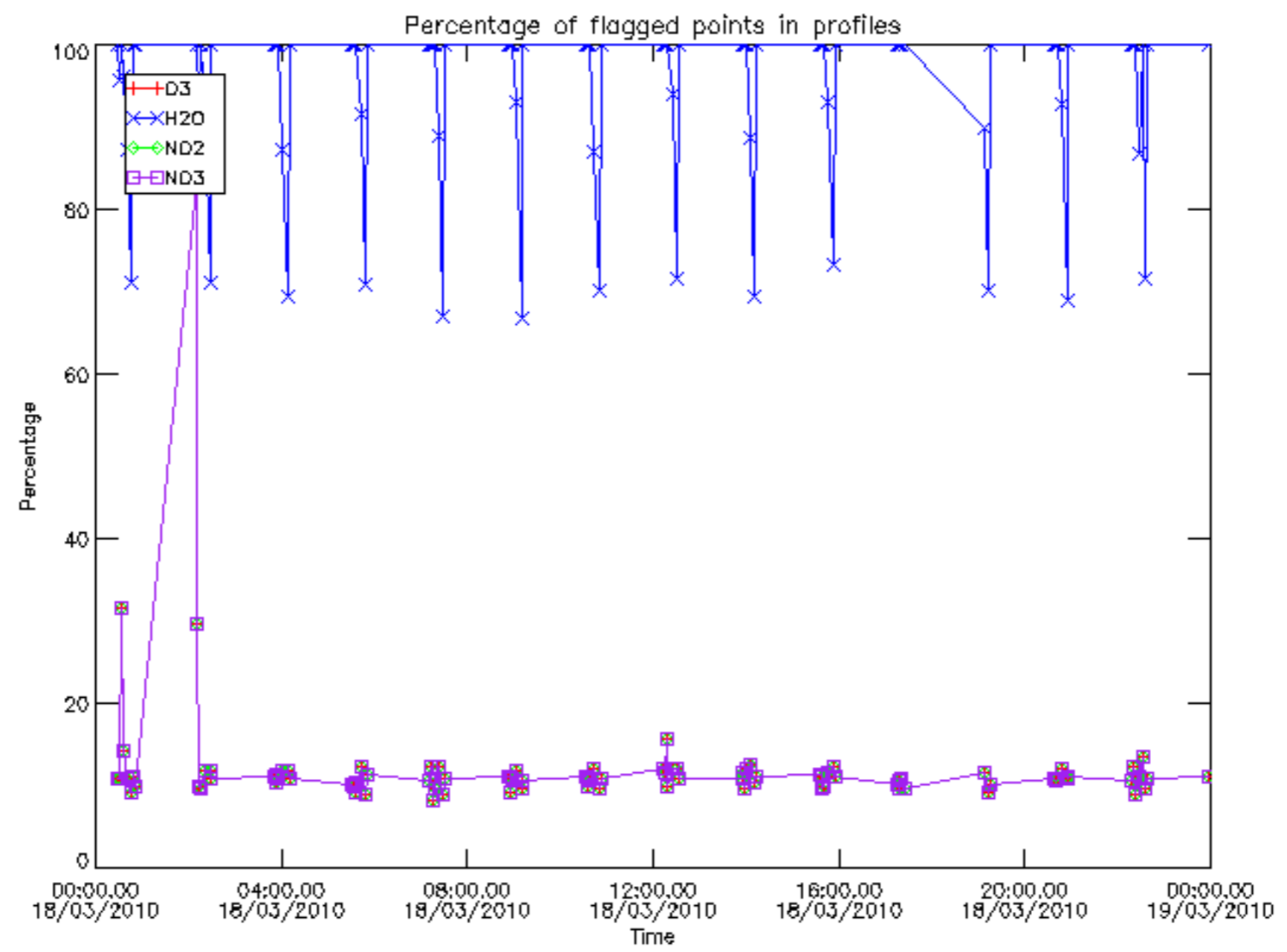
The colorbar represents the latitude.



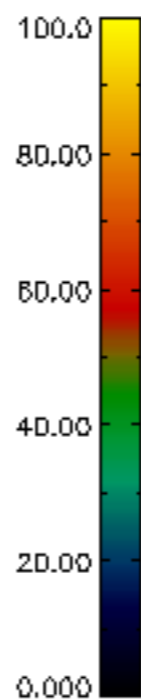
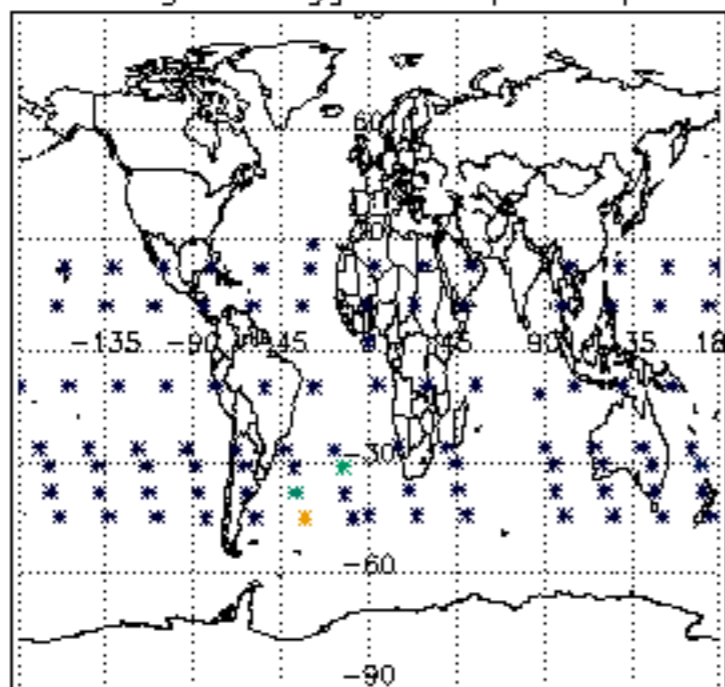
6. Auxiliary Data Files used for the production reported in section 2

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

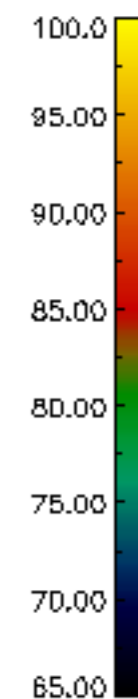
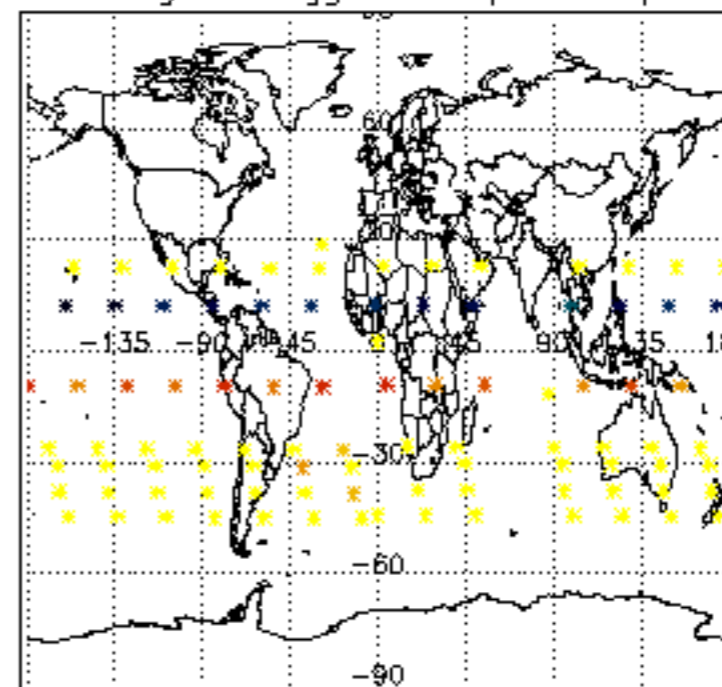
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	18-MAR-2010 00:07:02
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	18-MAR-2010 00:07:02
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	18-MAR-2010 00:07:02



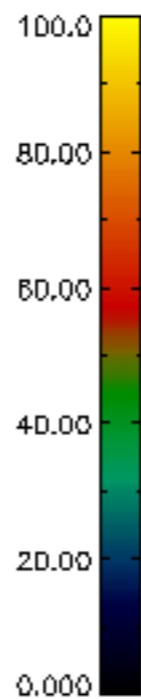
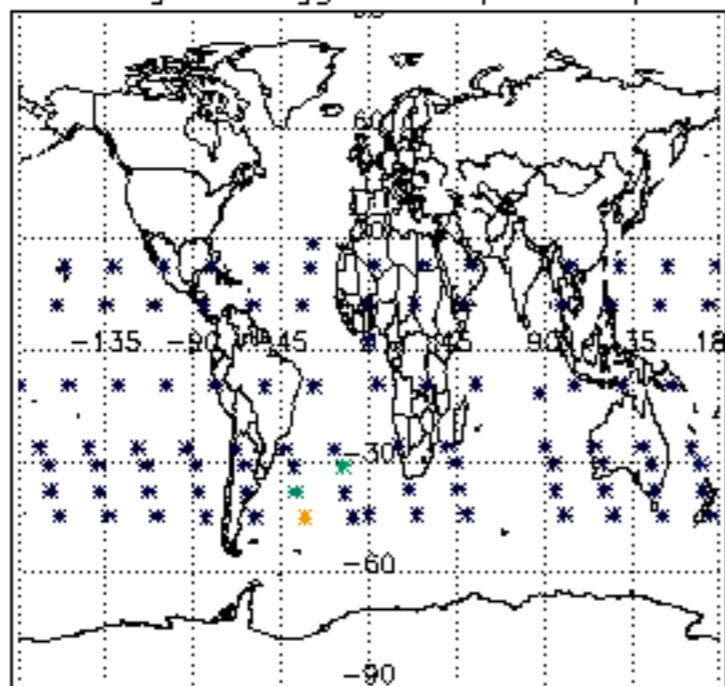
Percentage of flagged data per D3 profile



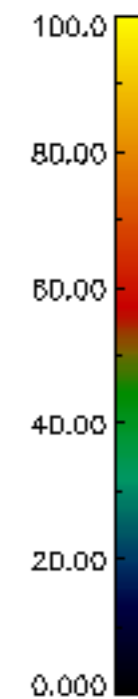
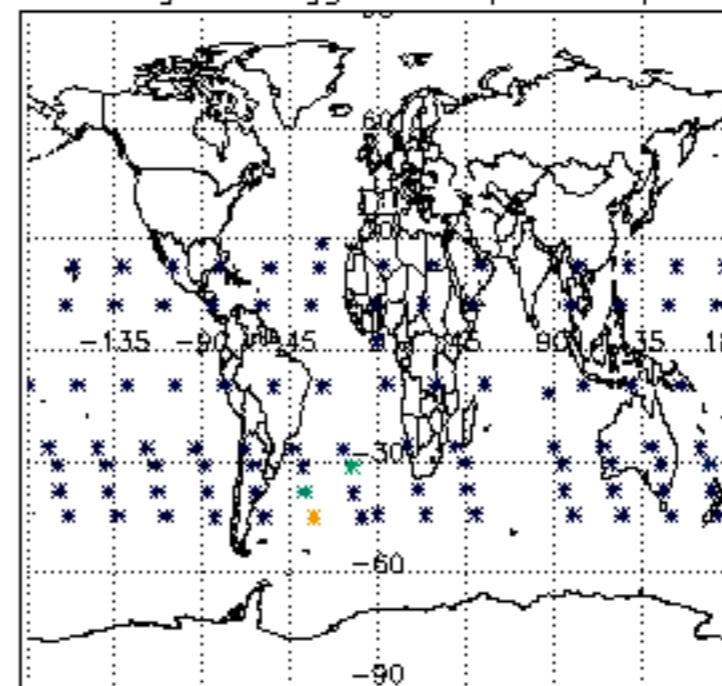
Percentage of flagged data per H2O profile

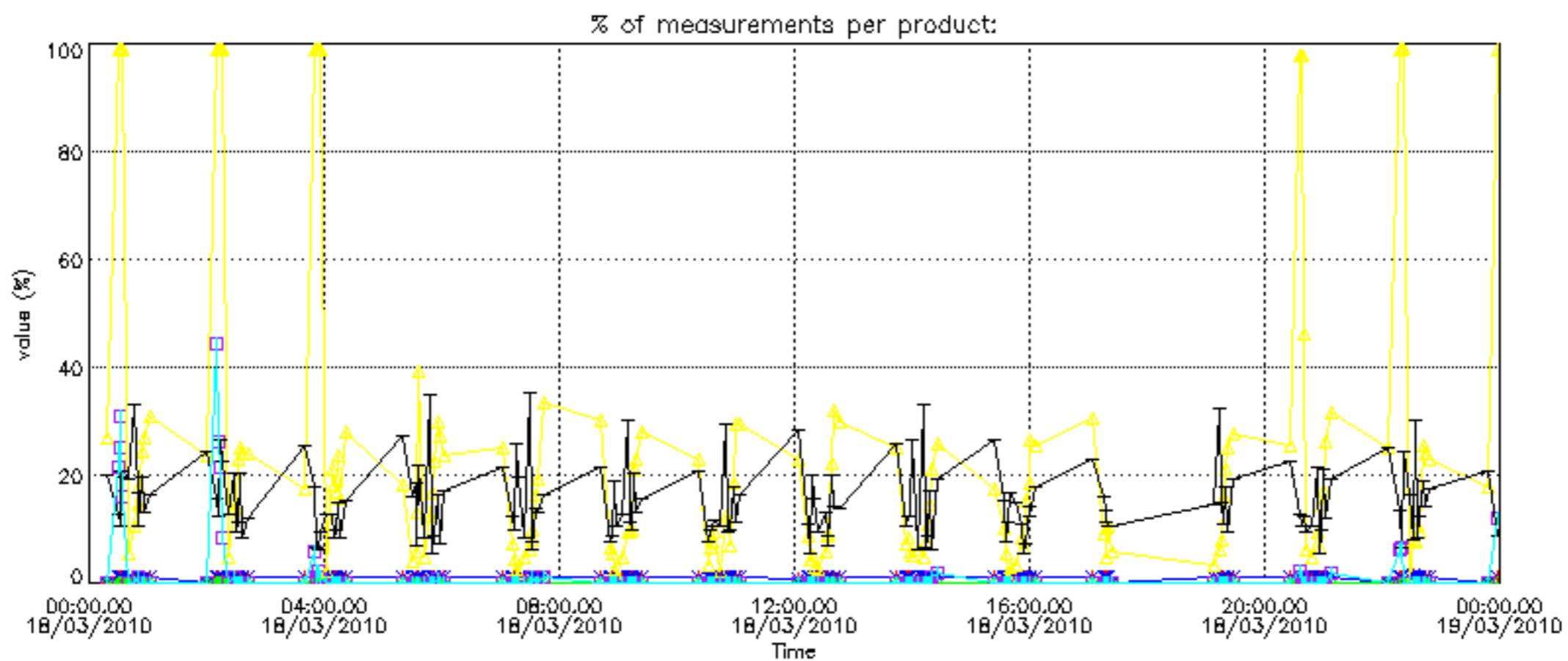


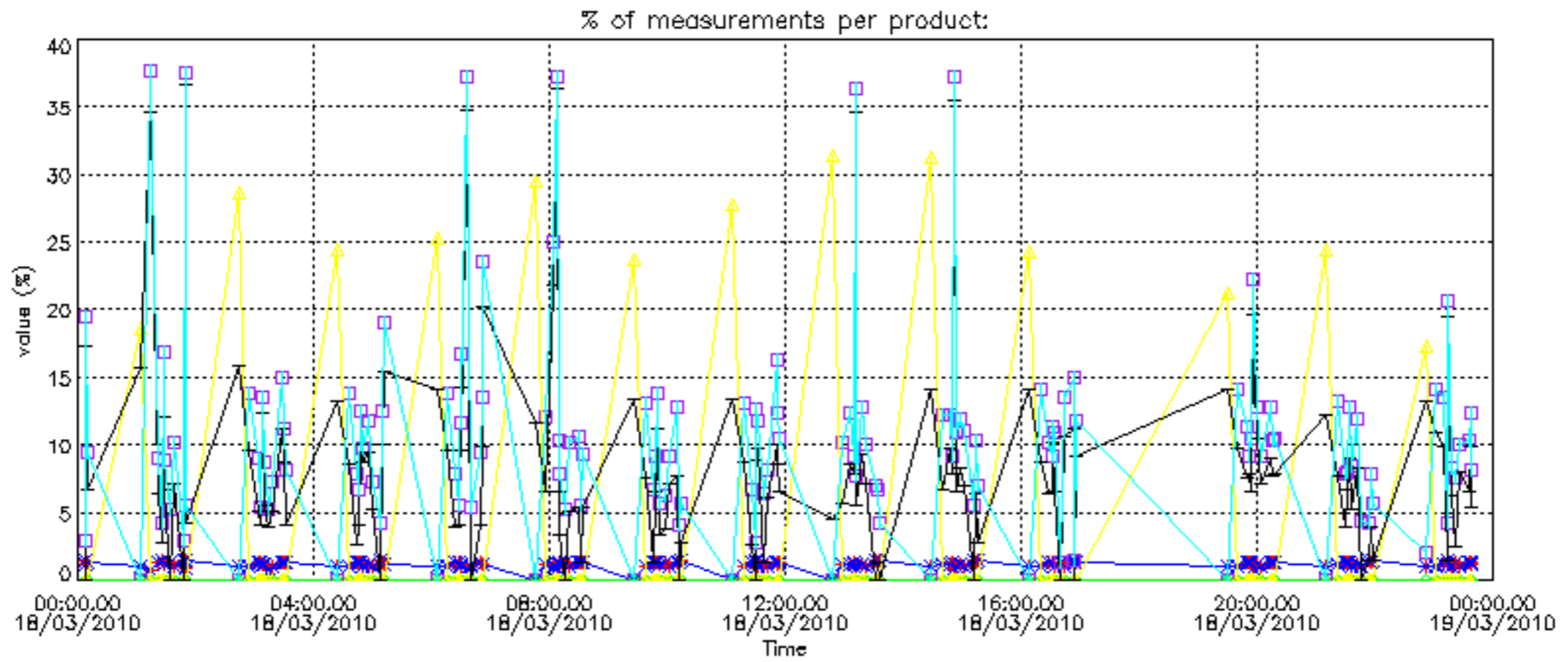
Percentage of flagged data per NO2 profile



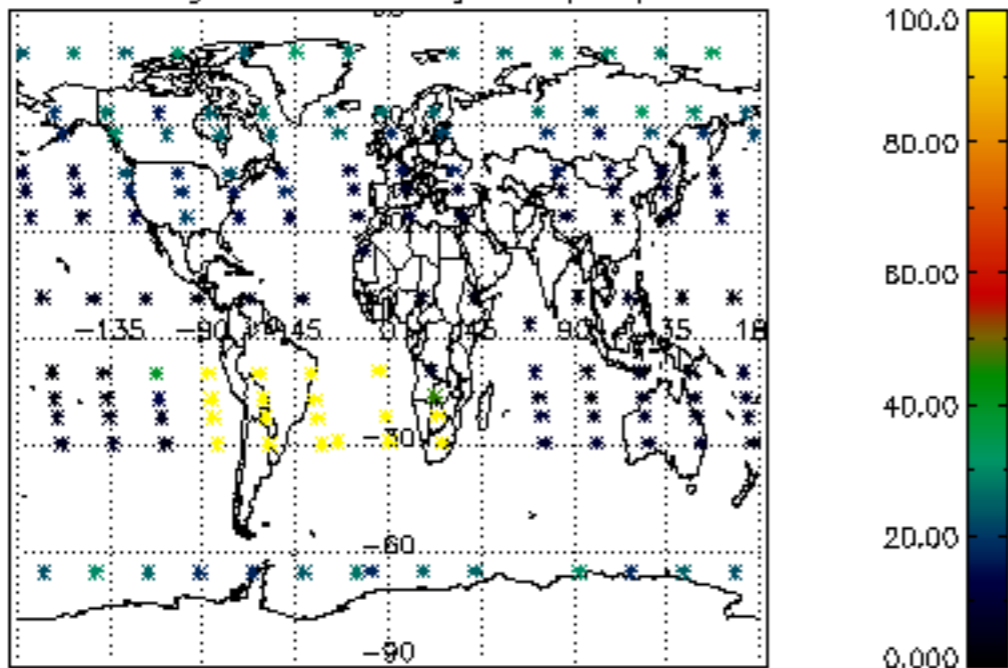
Percentage of flagged data per NO3 profile



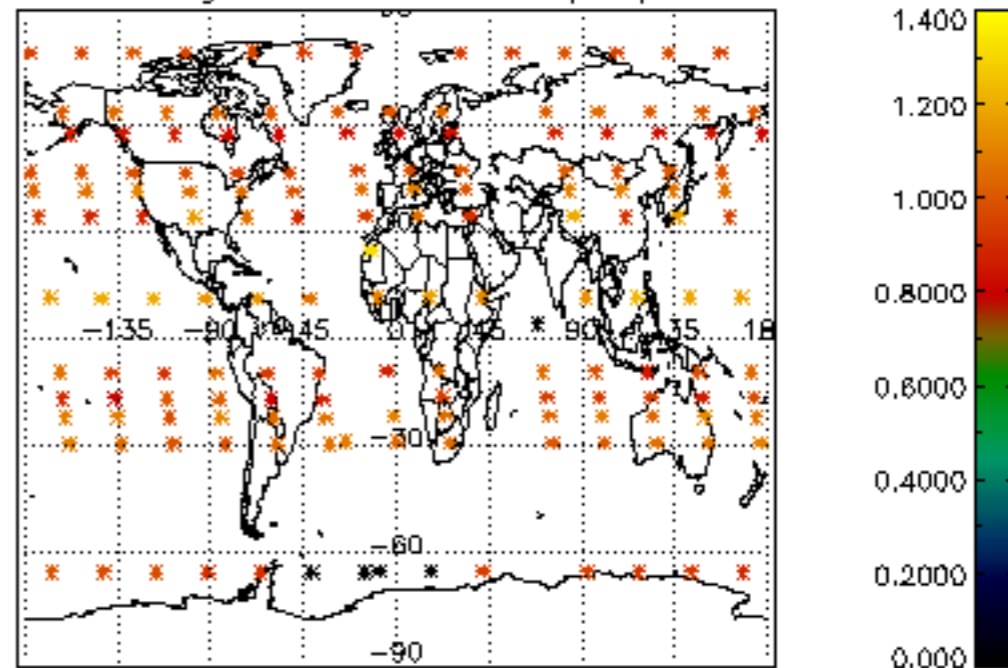




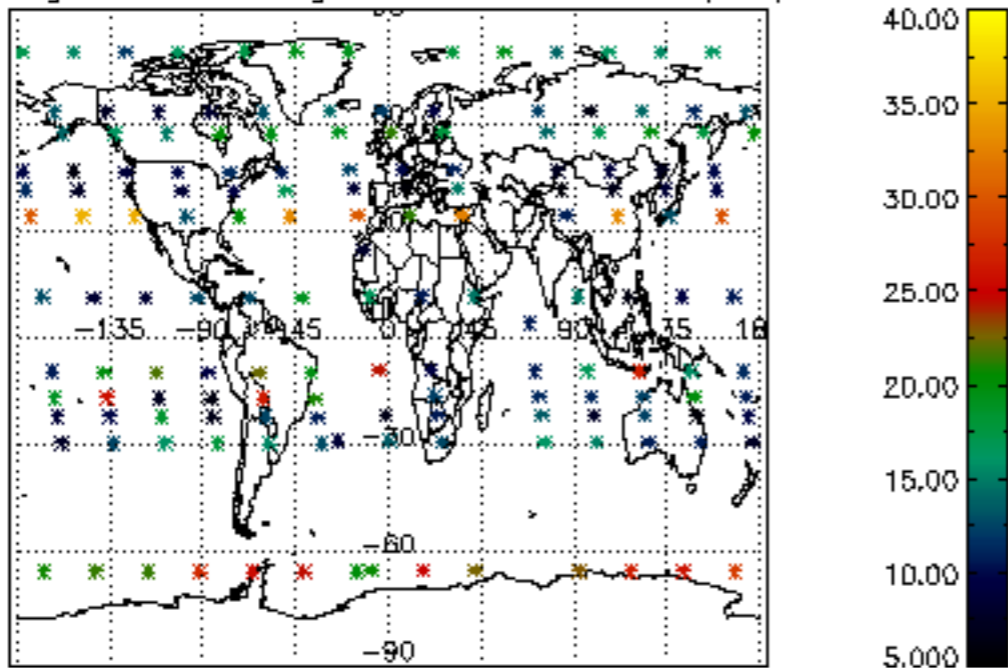
Percentage of cosmic ray hits per profile



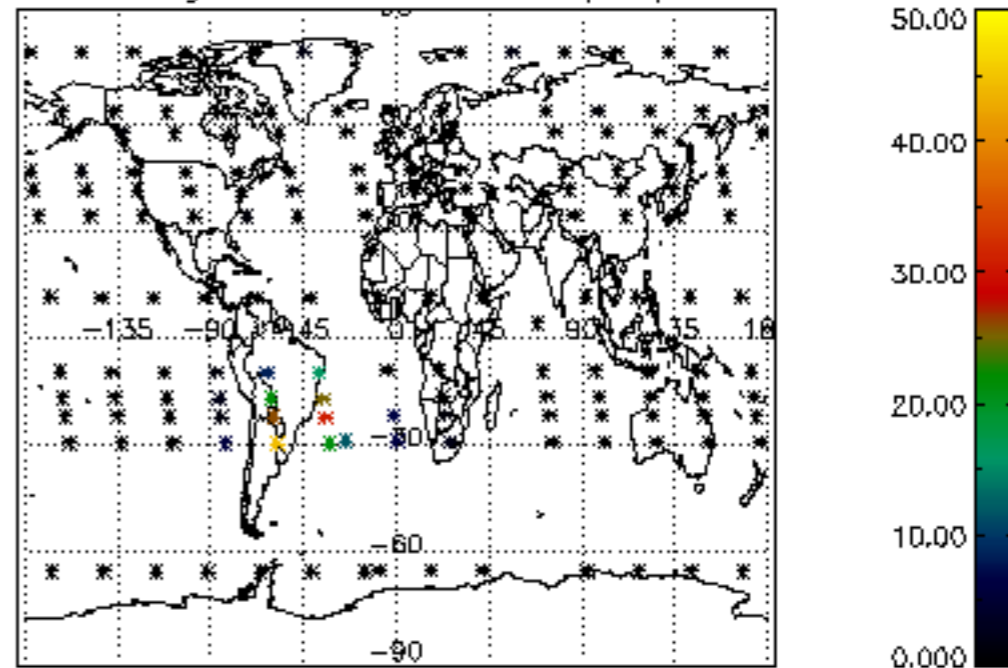
Percentage of datation errors per profile



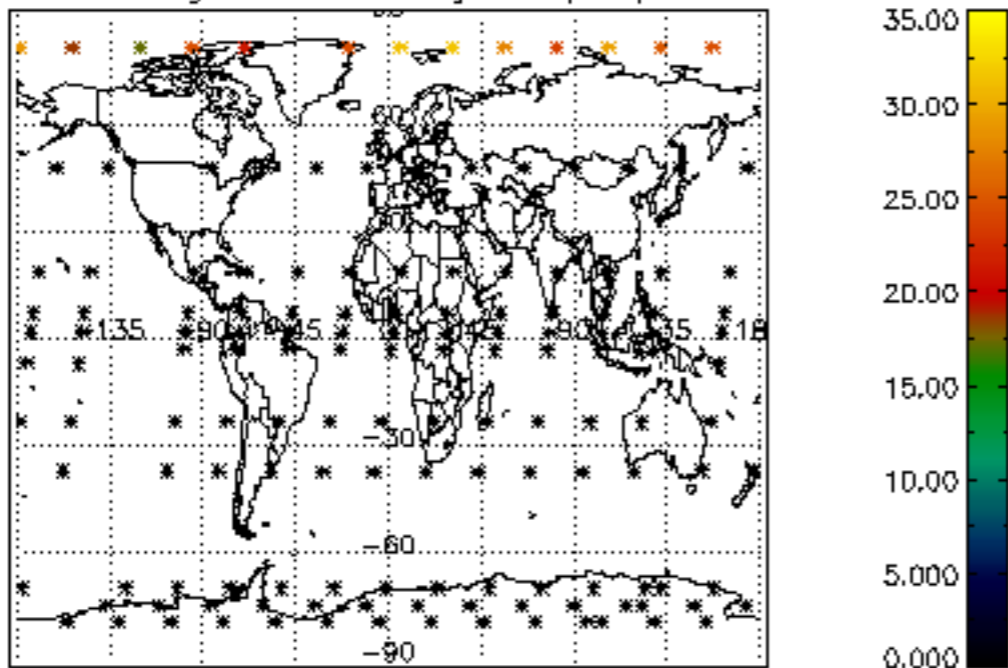
Percentage of star falling outside central band per profile



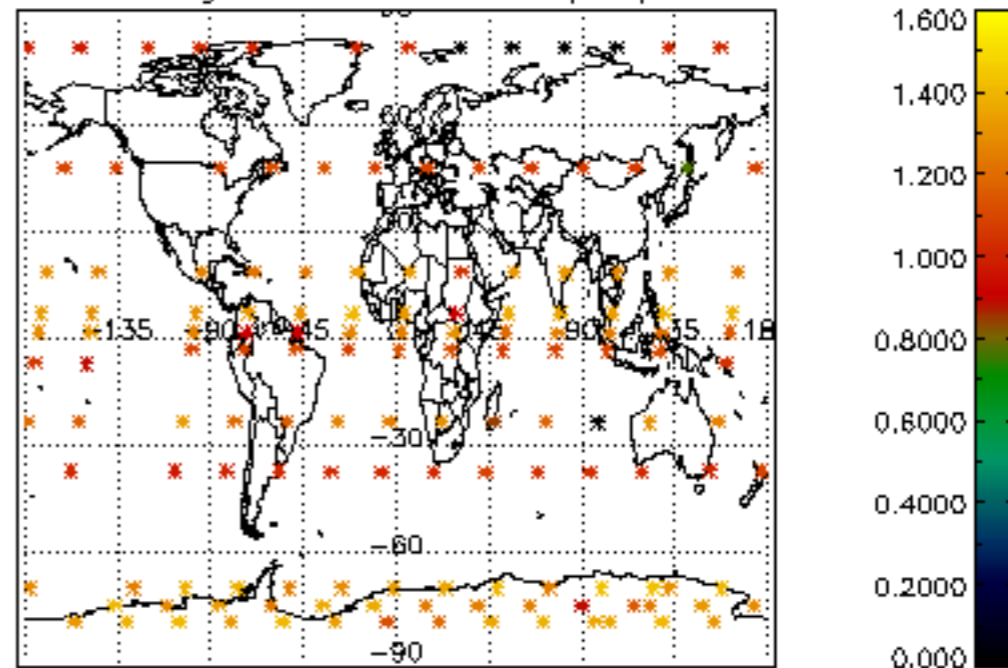
Percentage of saturation errors per profile



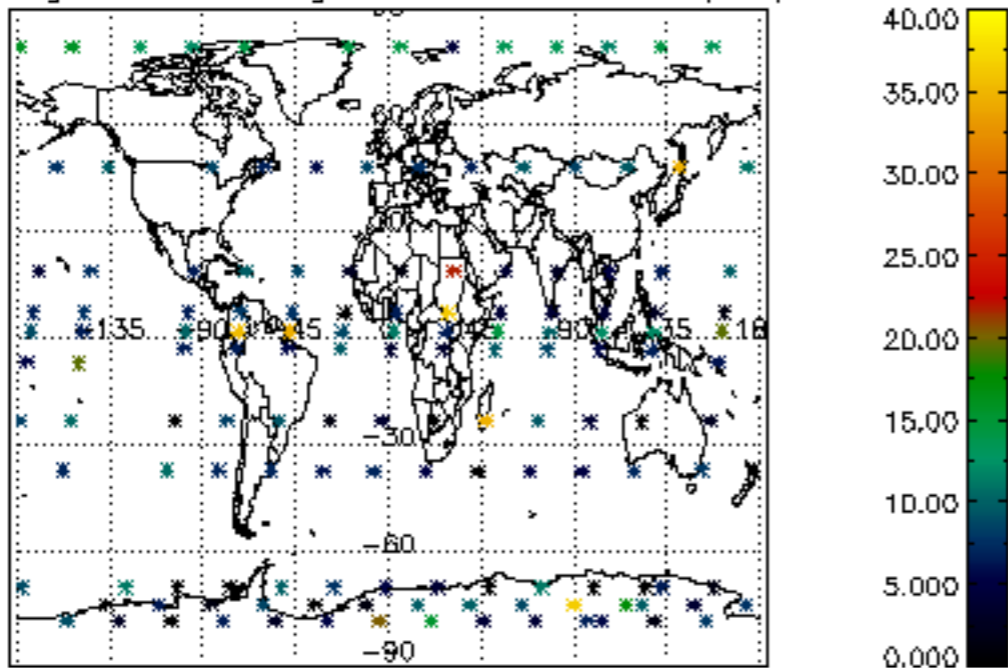
Percentage of cosmic ray hits per profile



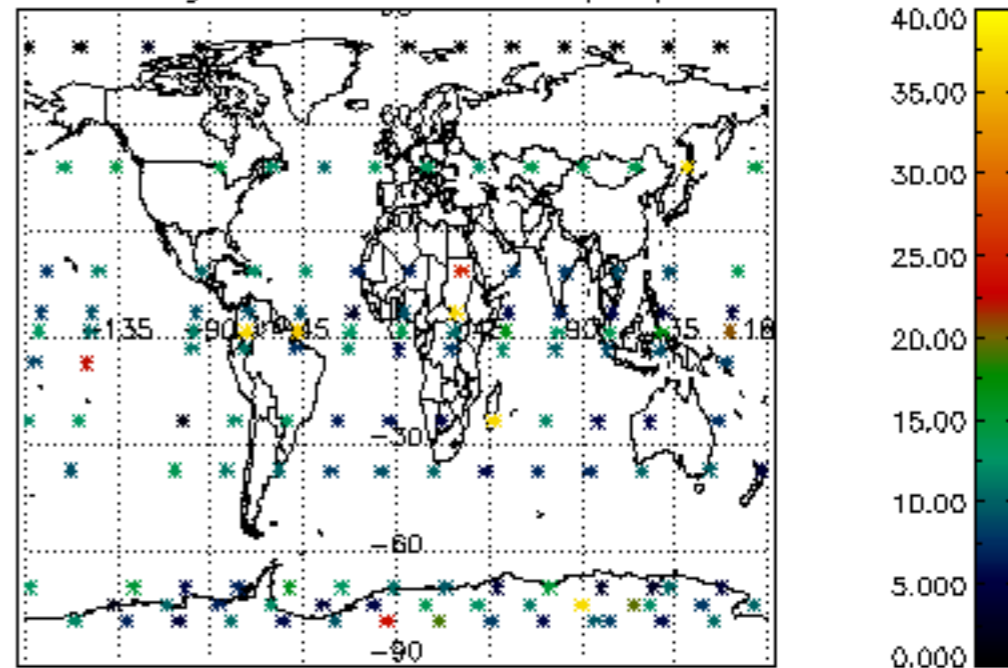
Percentage of datation errors per profile

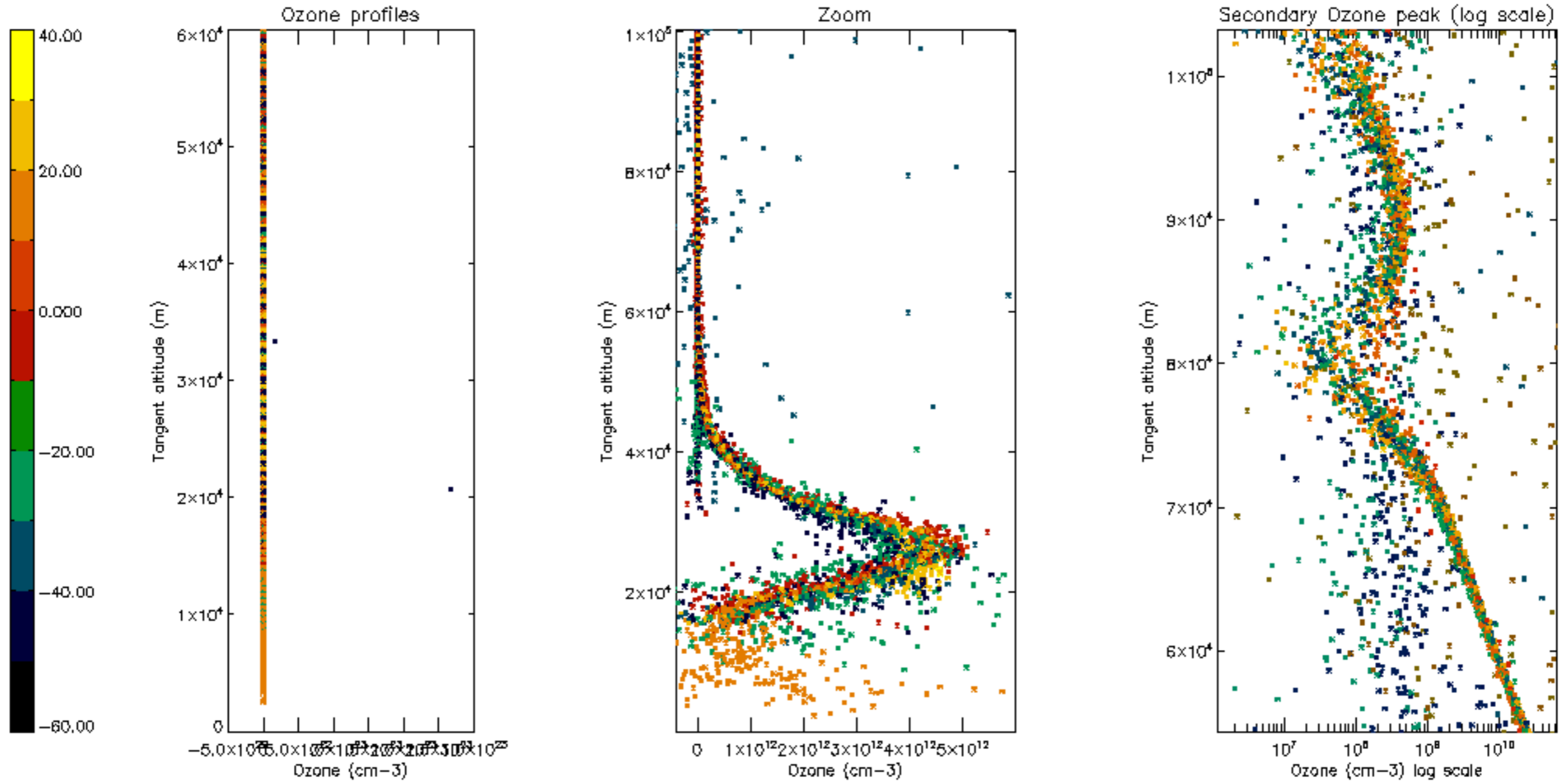


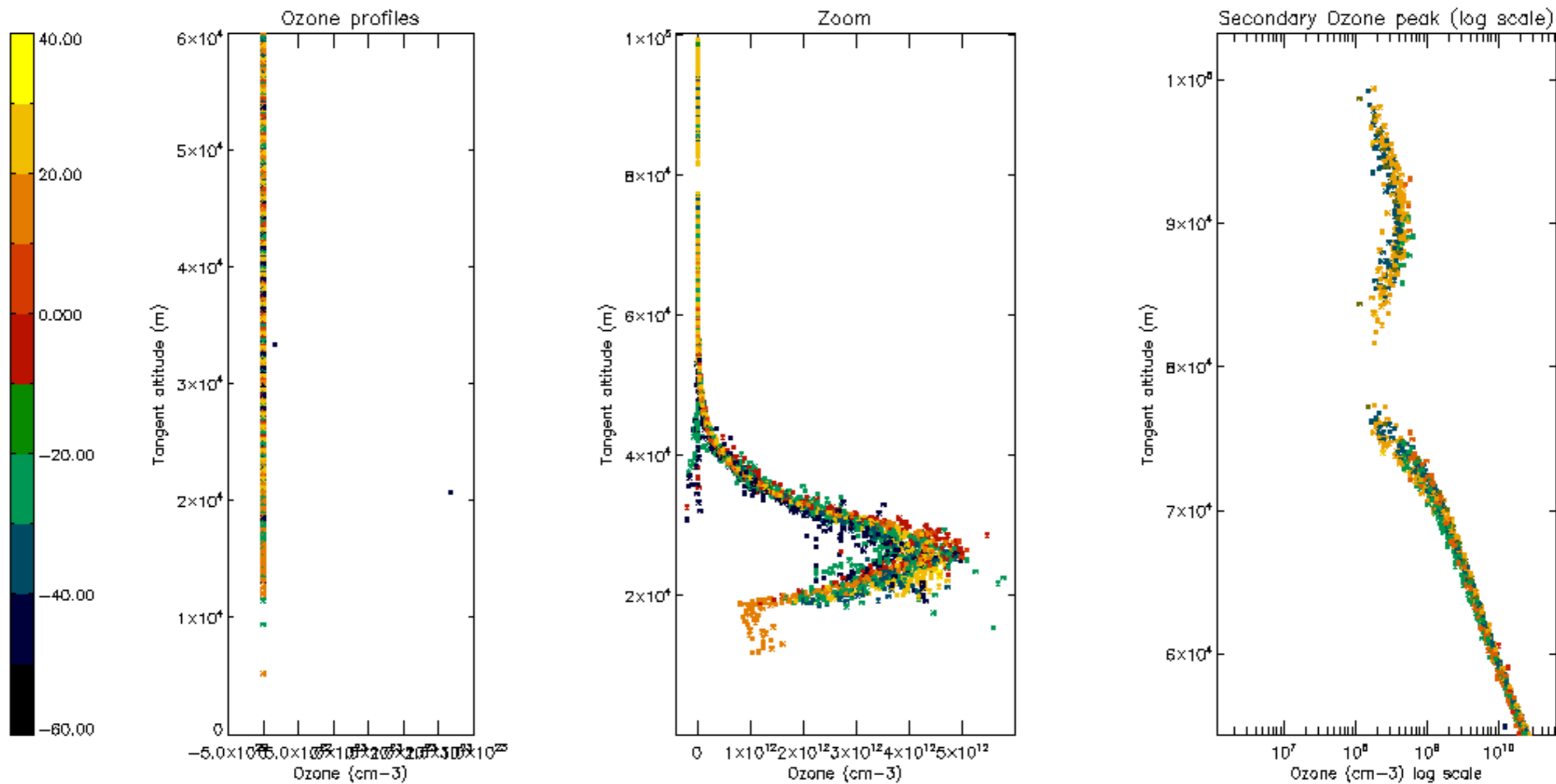
Percentage of star falling outside central band per profile

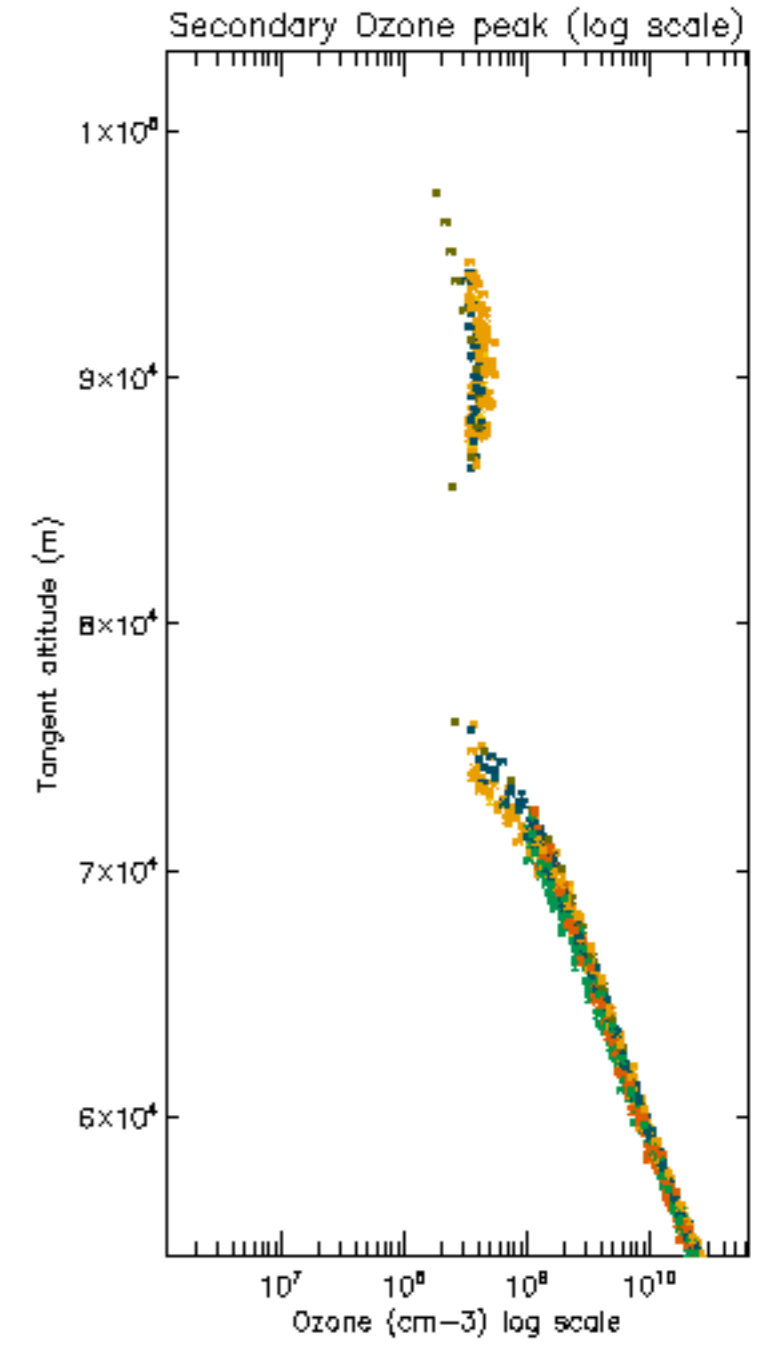
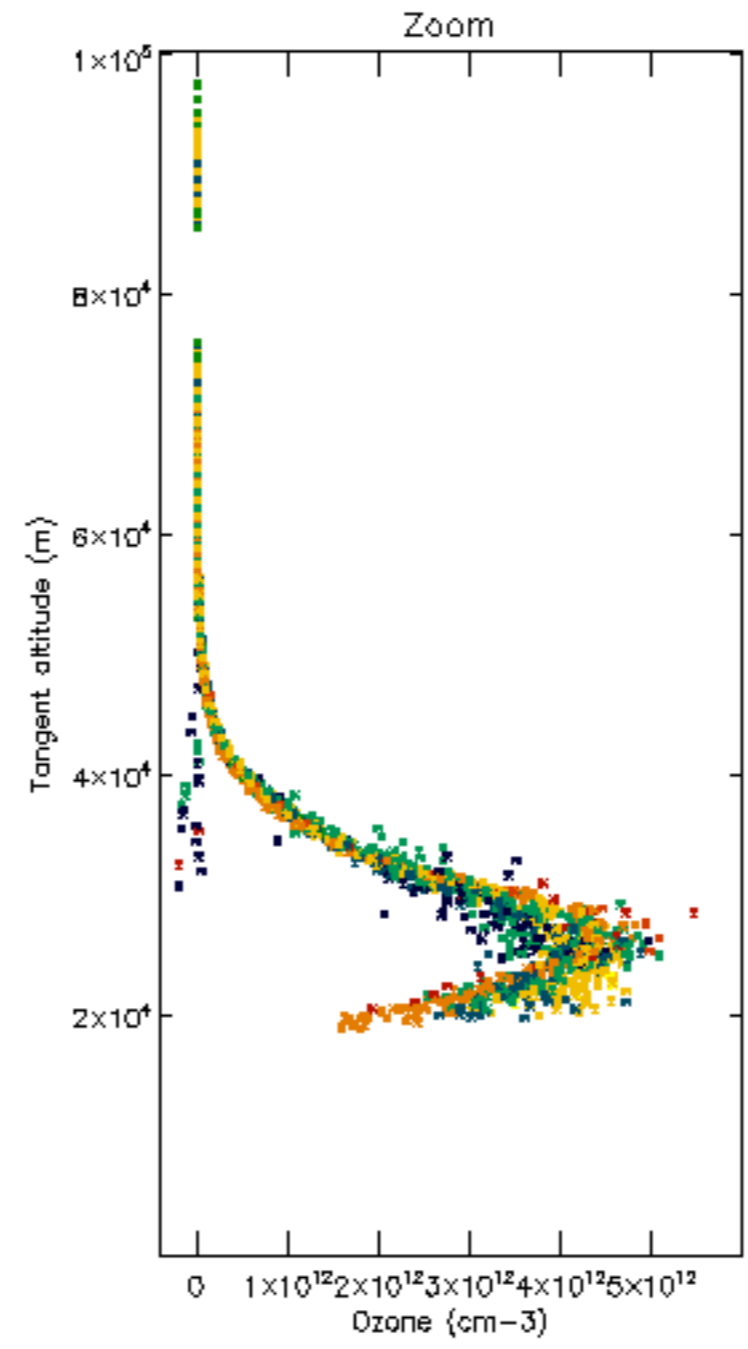
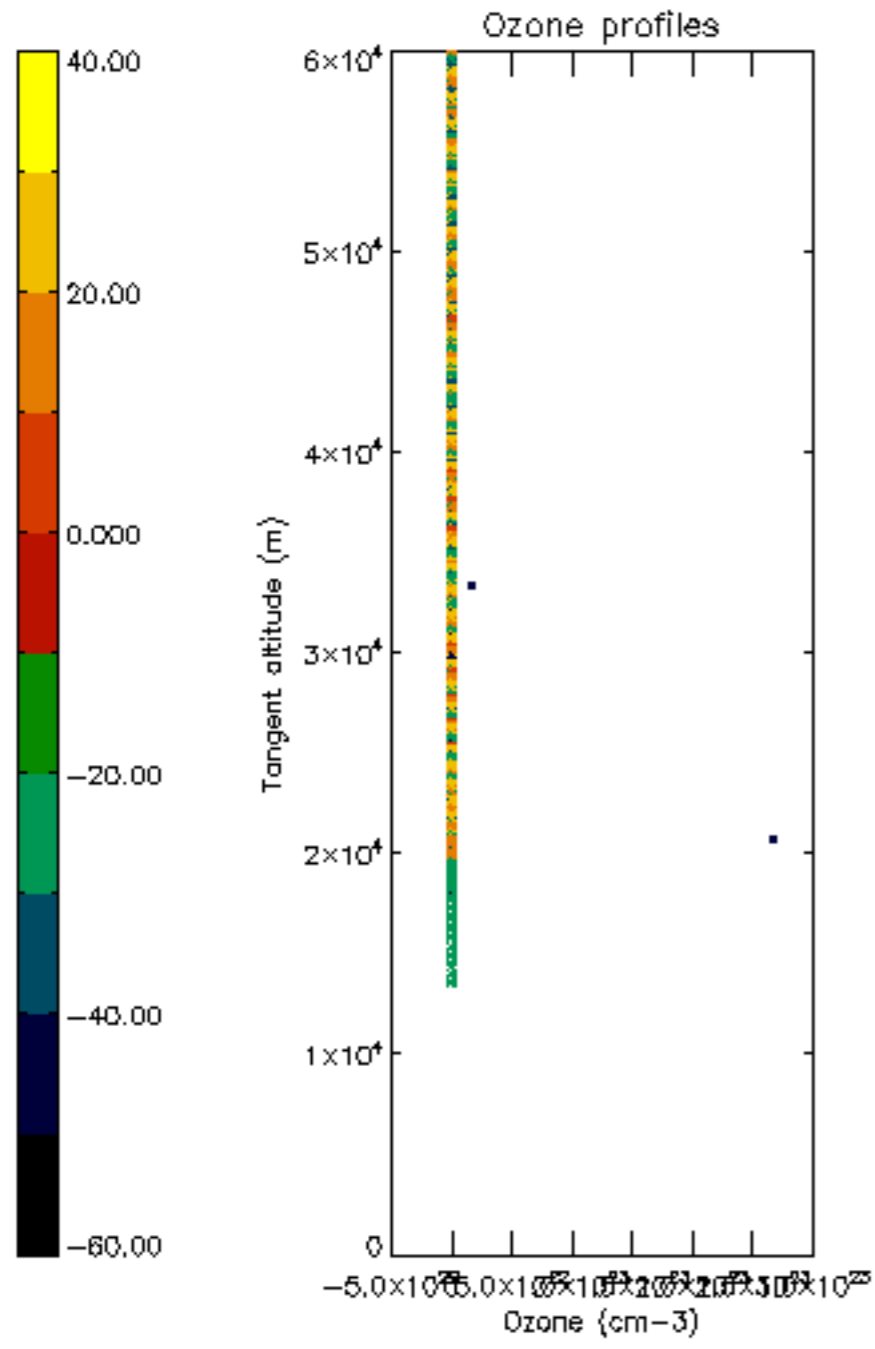


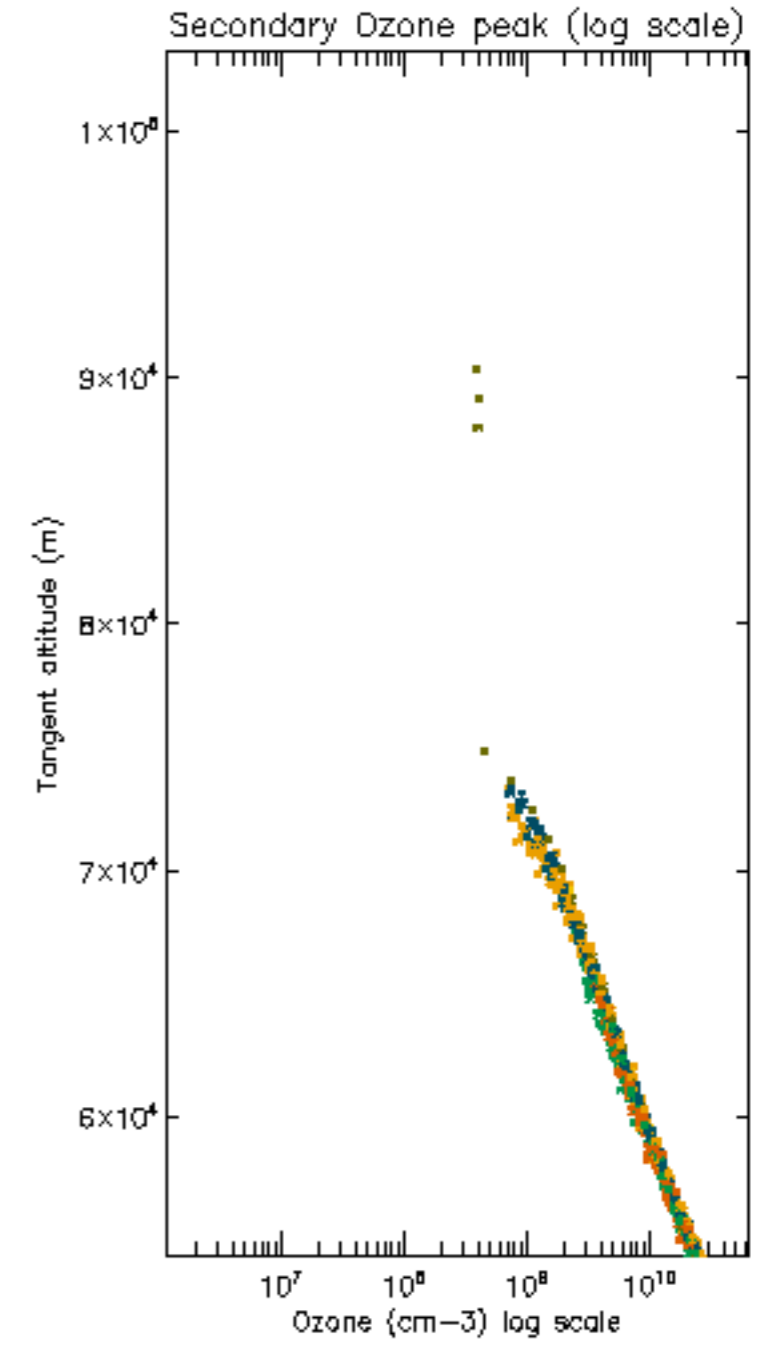
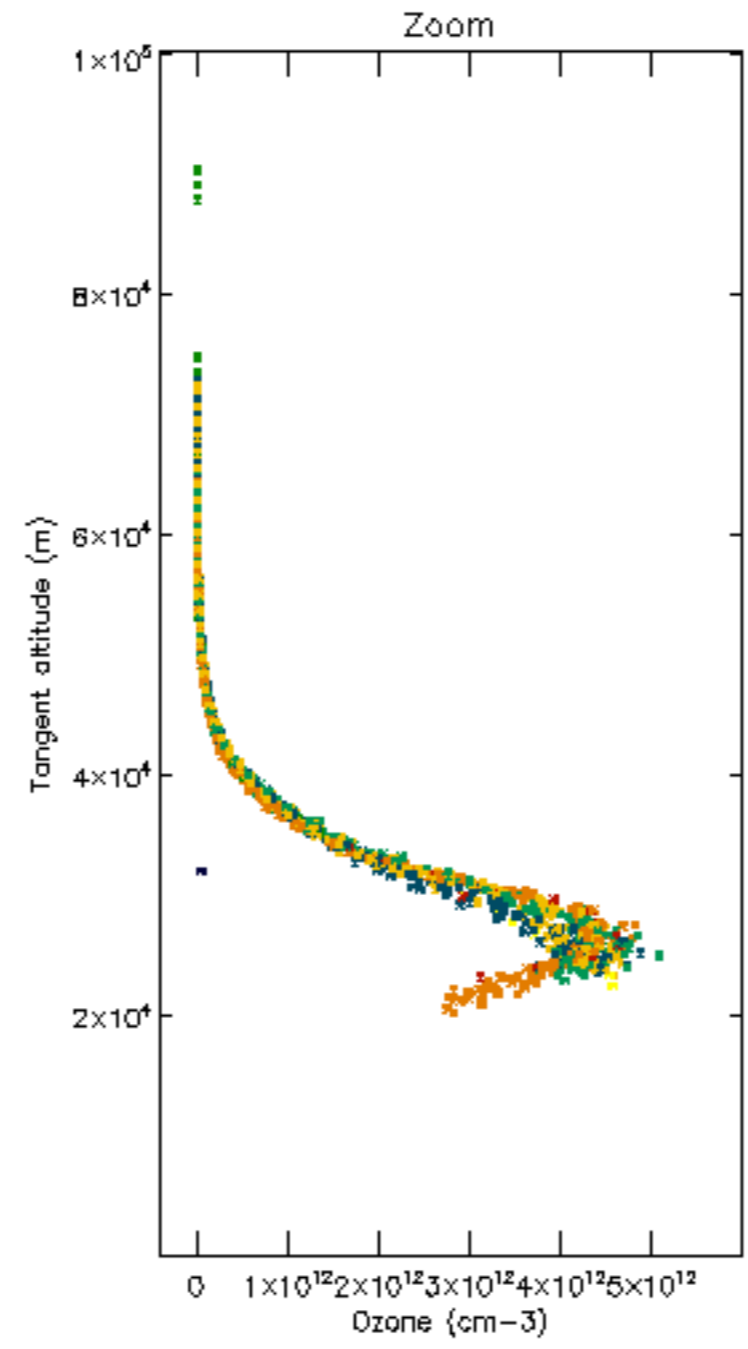
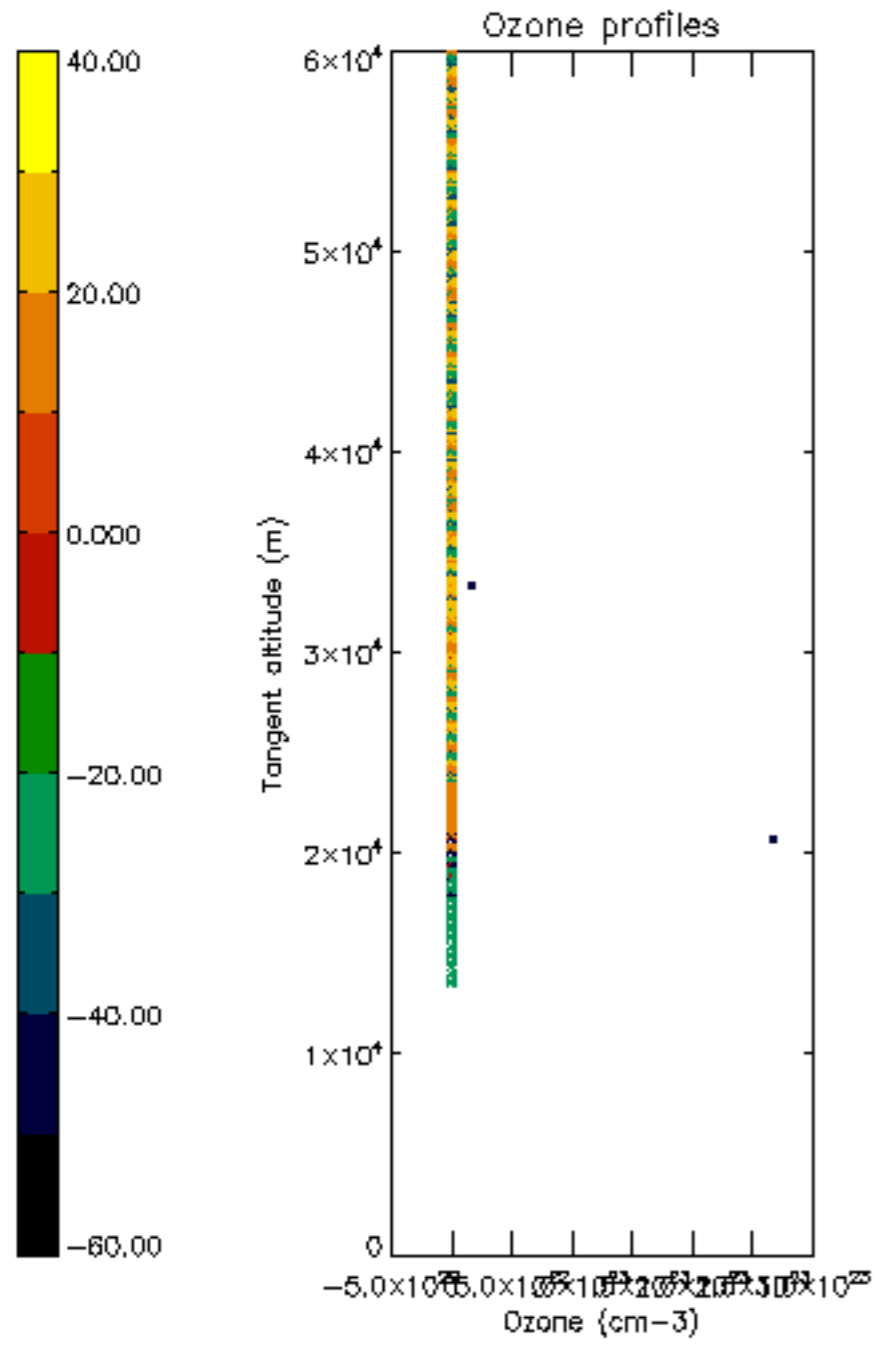
Percentage of saturation errors per profile

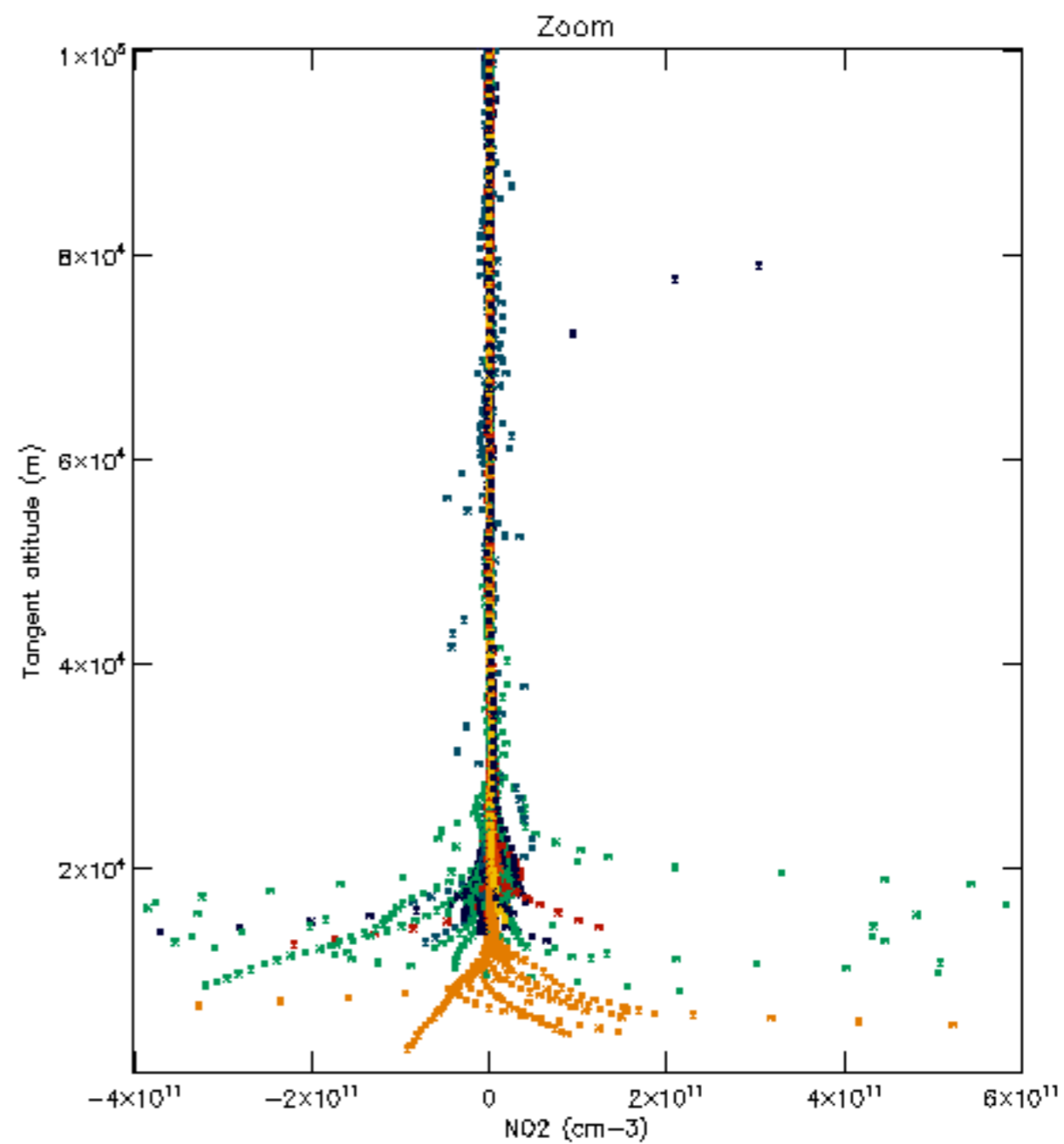
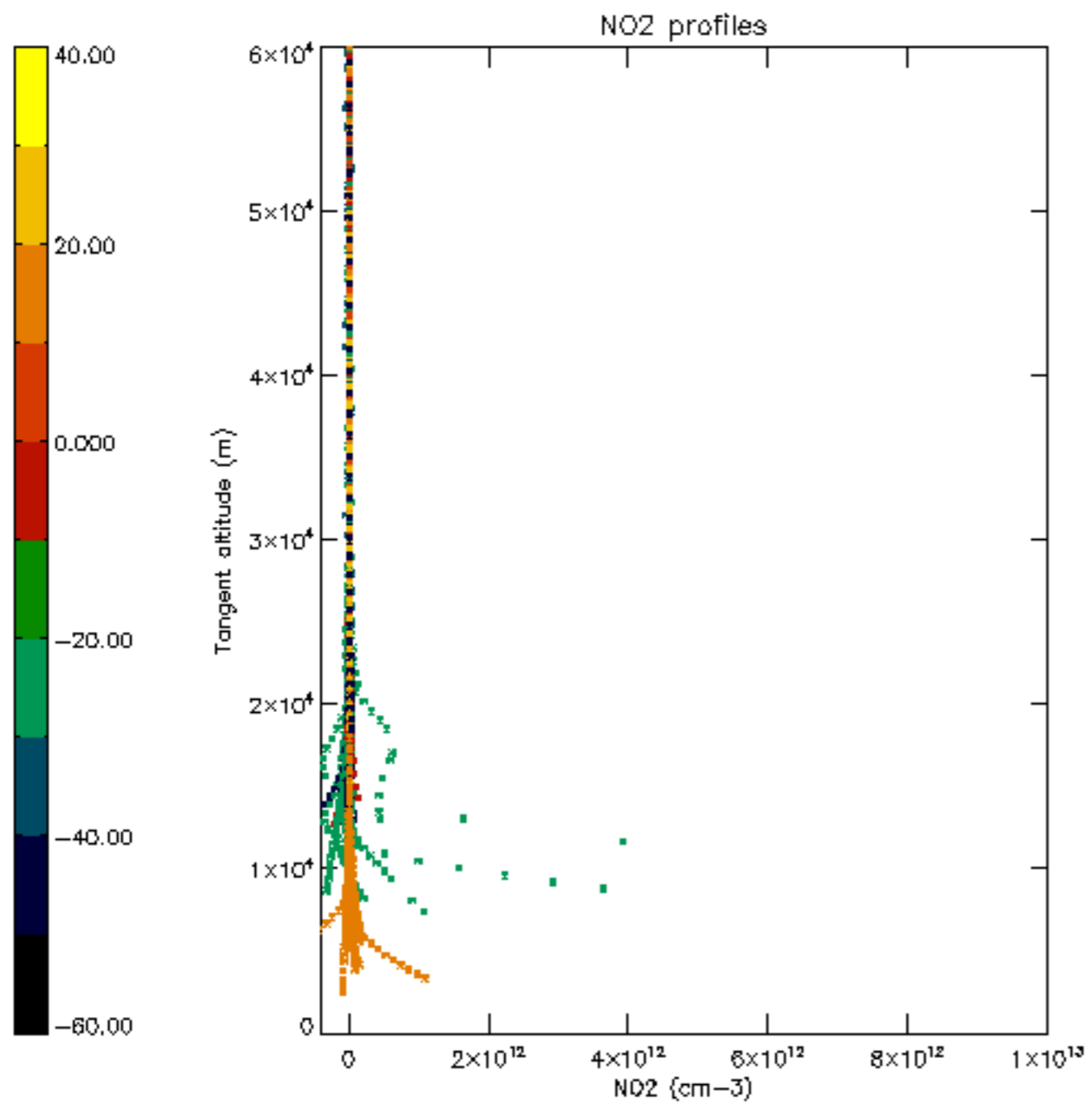


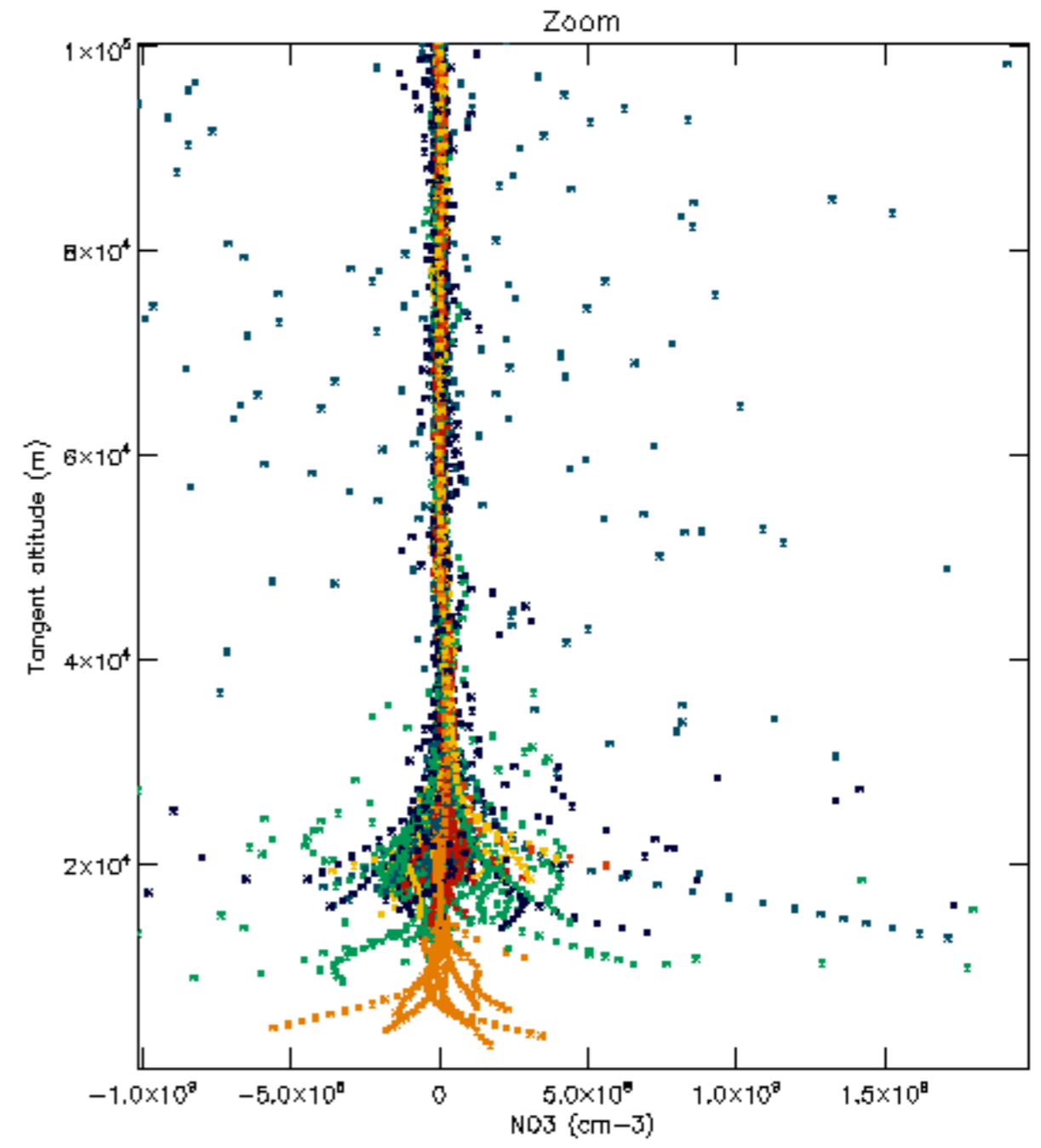
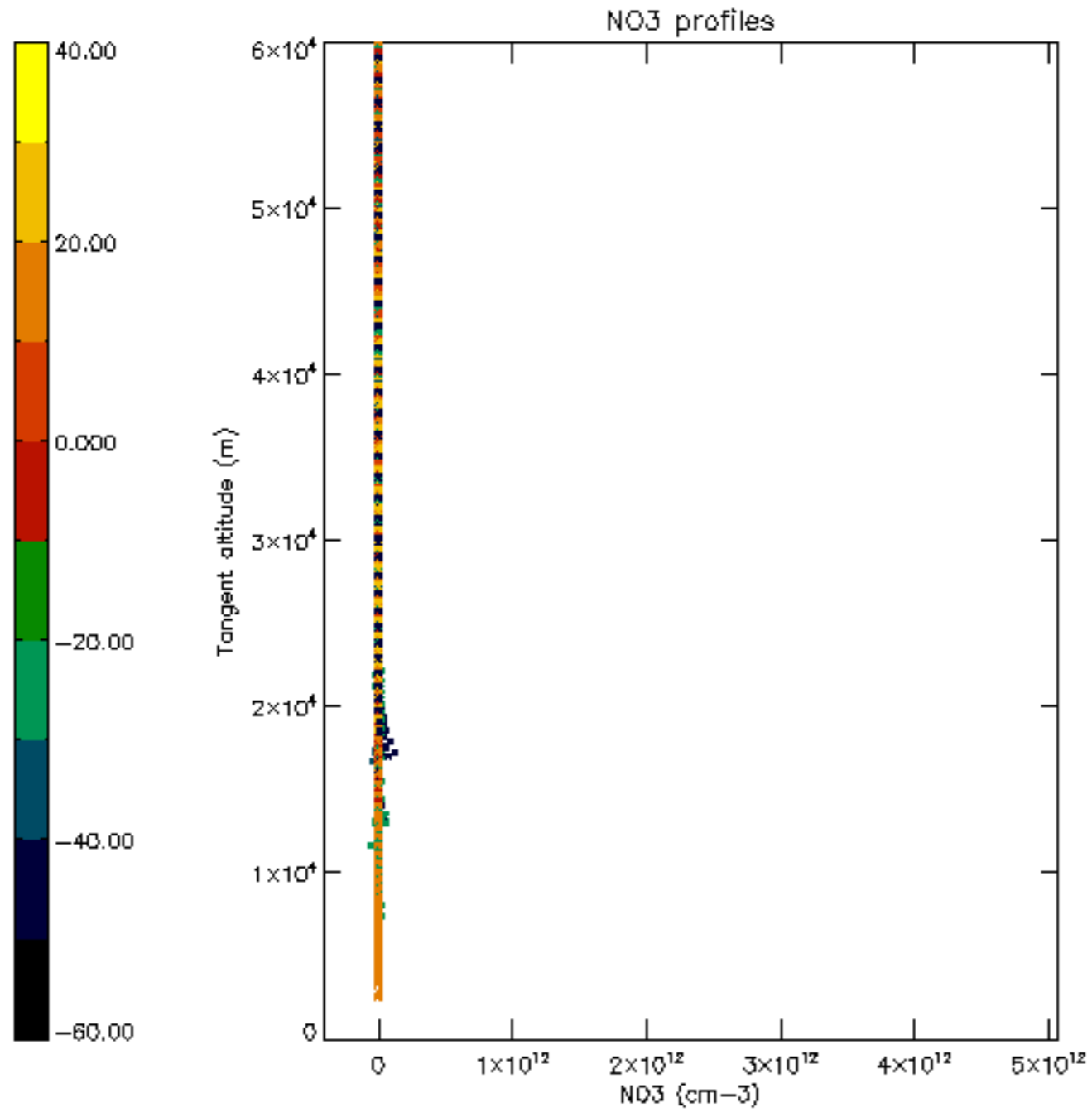


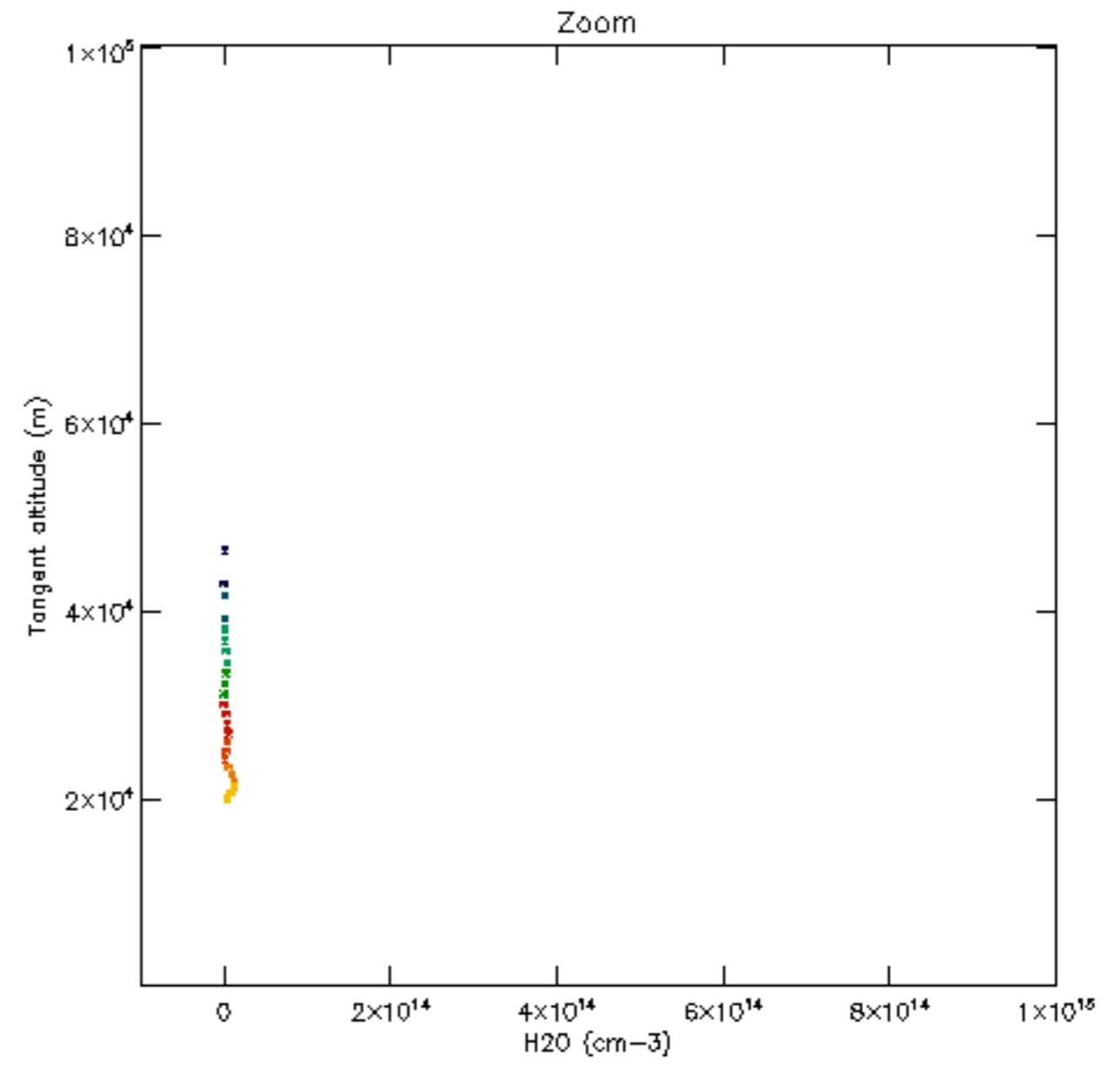
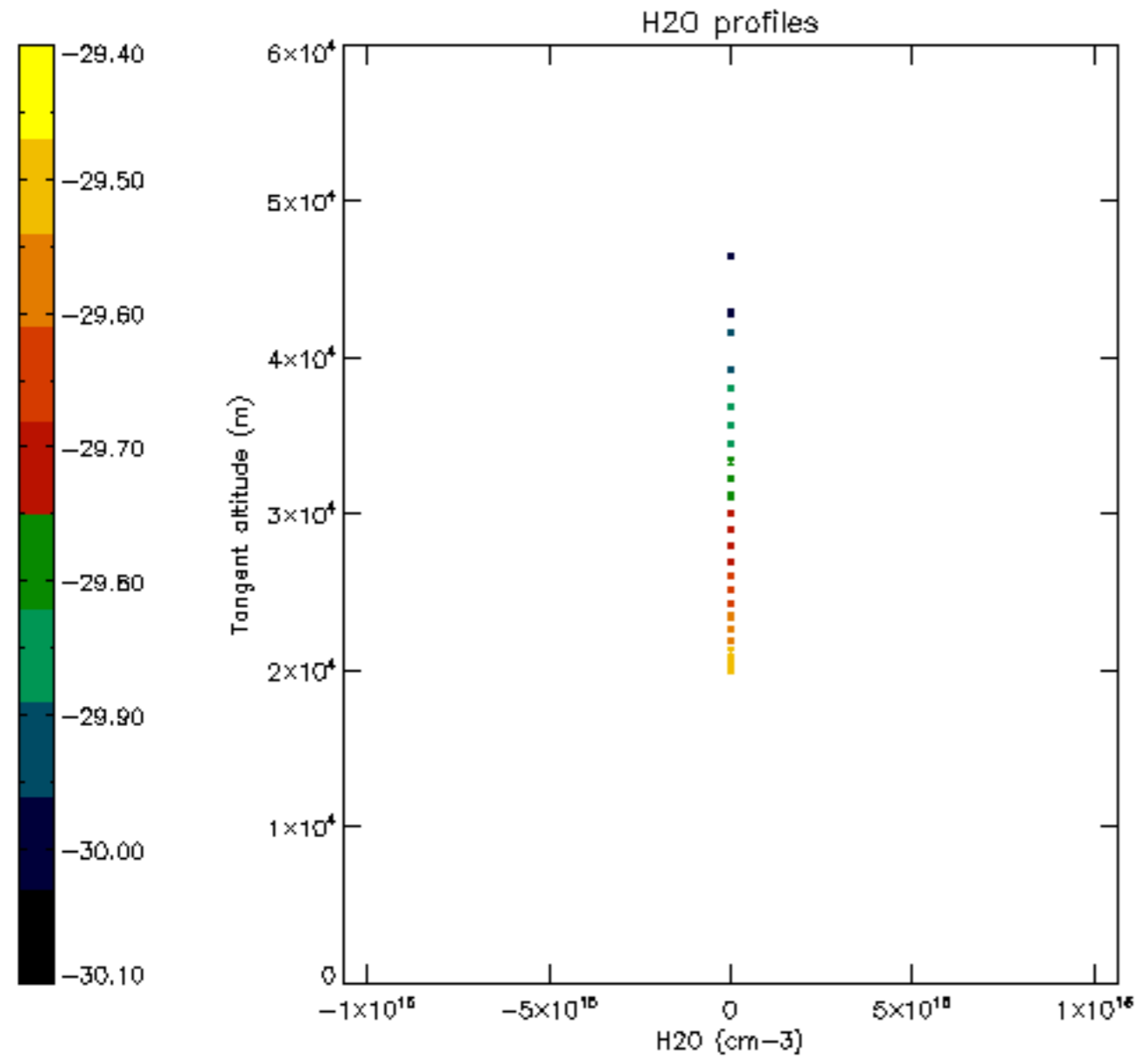


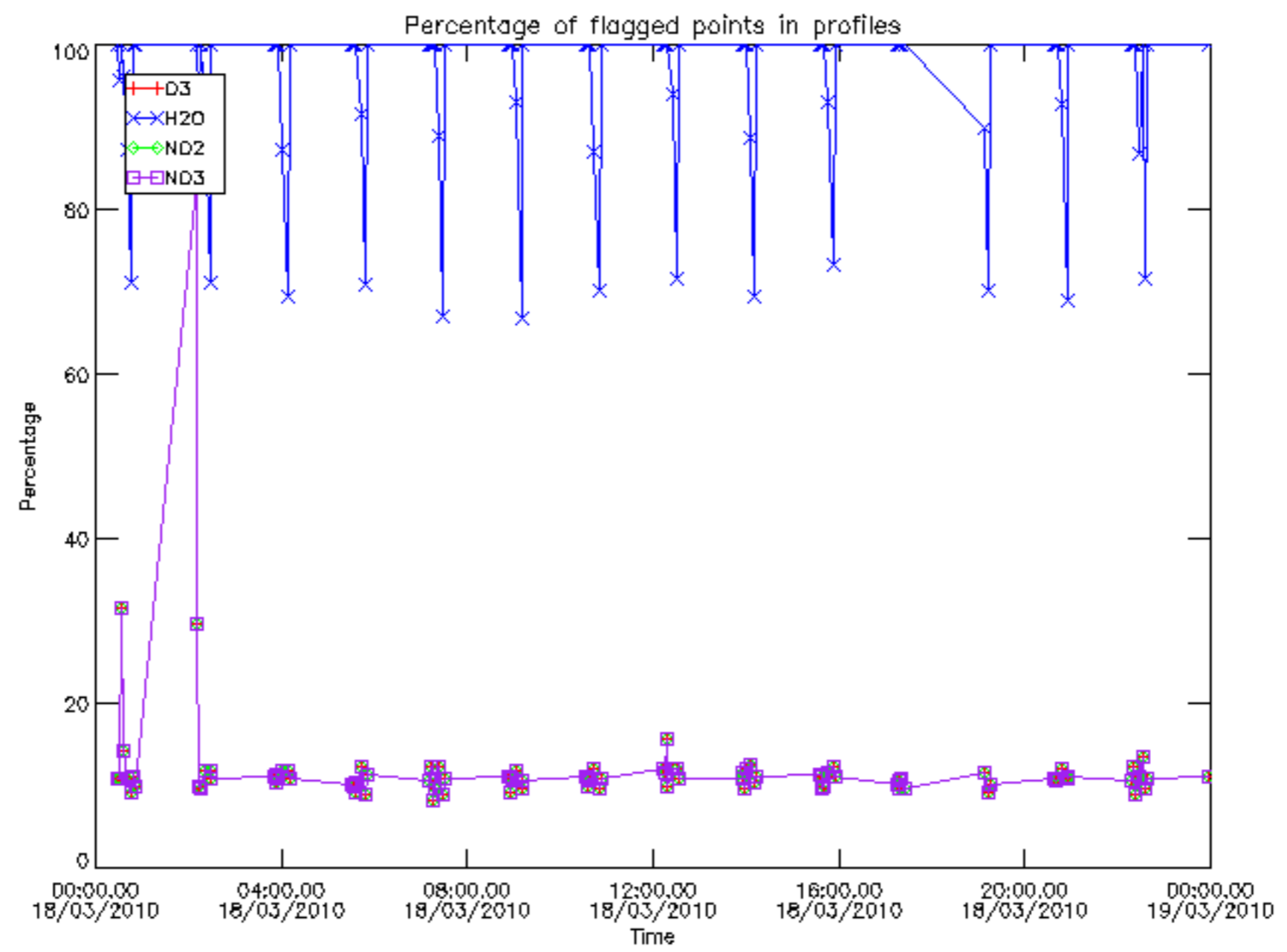




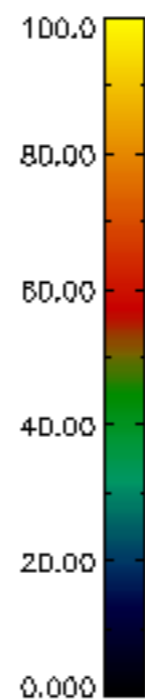
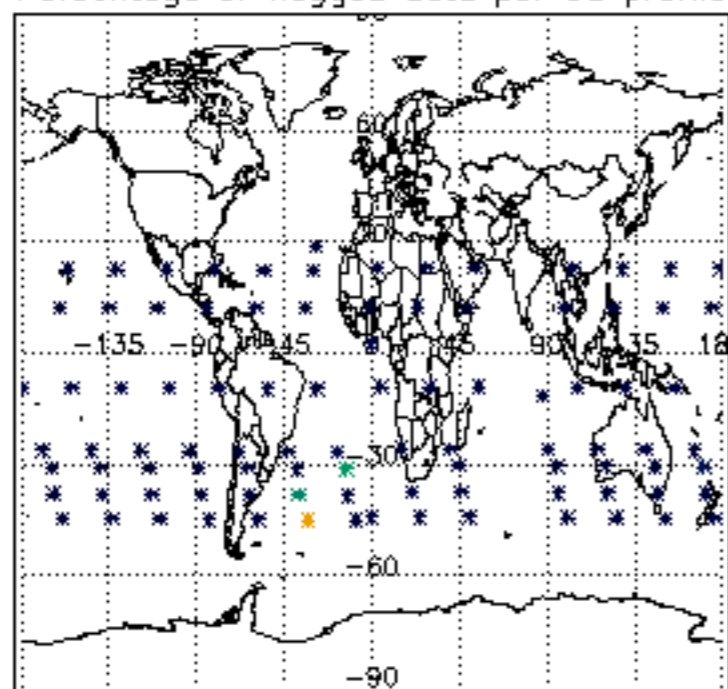




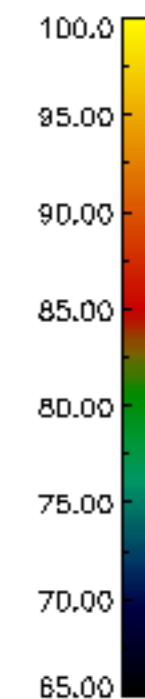
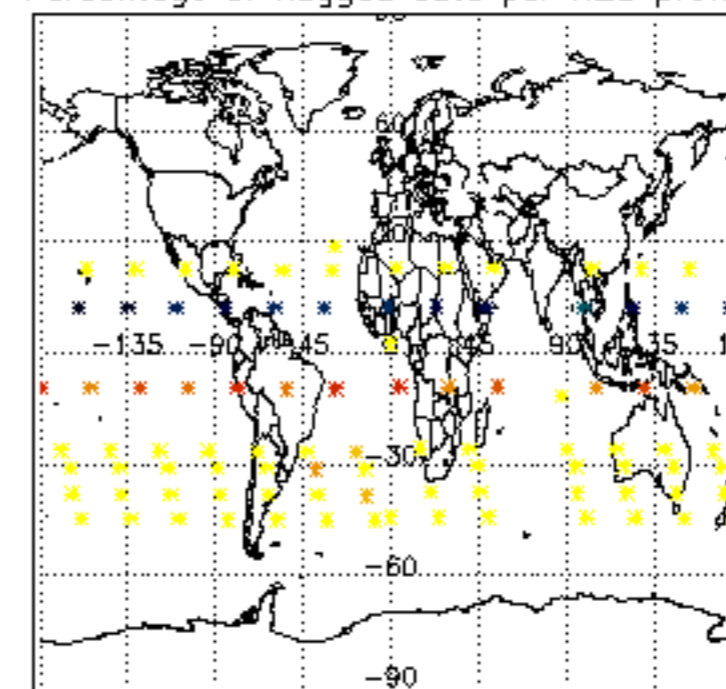




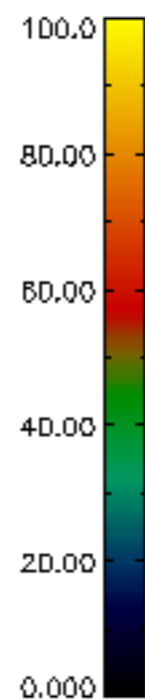
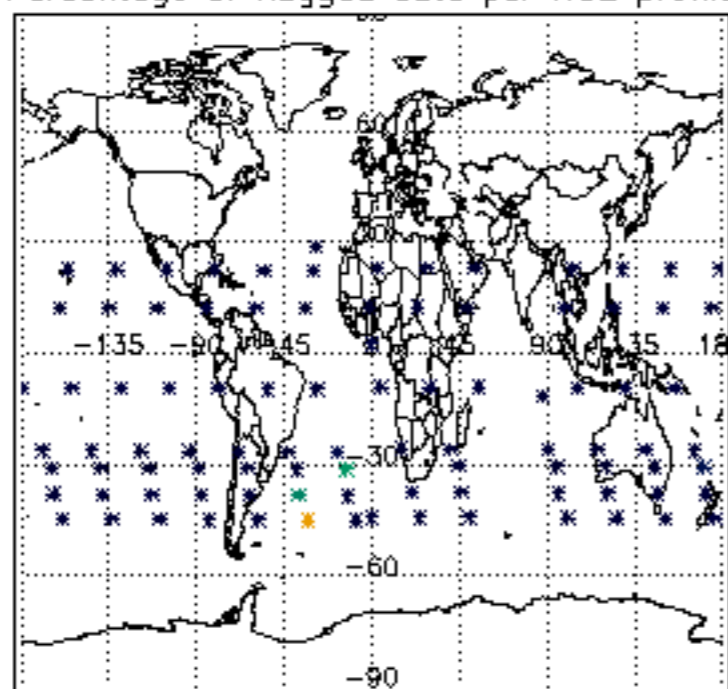
Percentage of flagged data per D3 profile



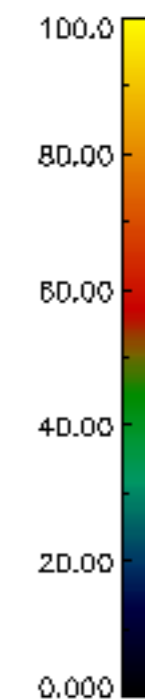
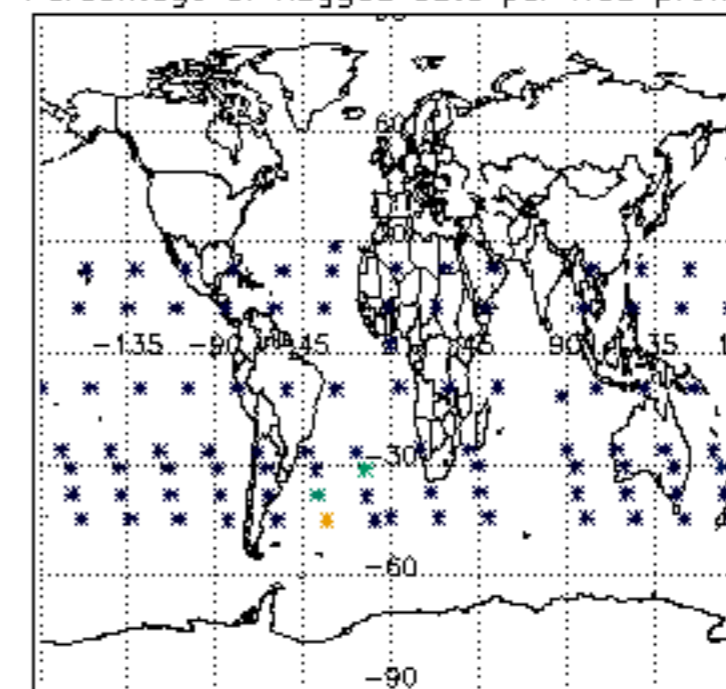
Percentage of flagged data per H2O profile

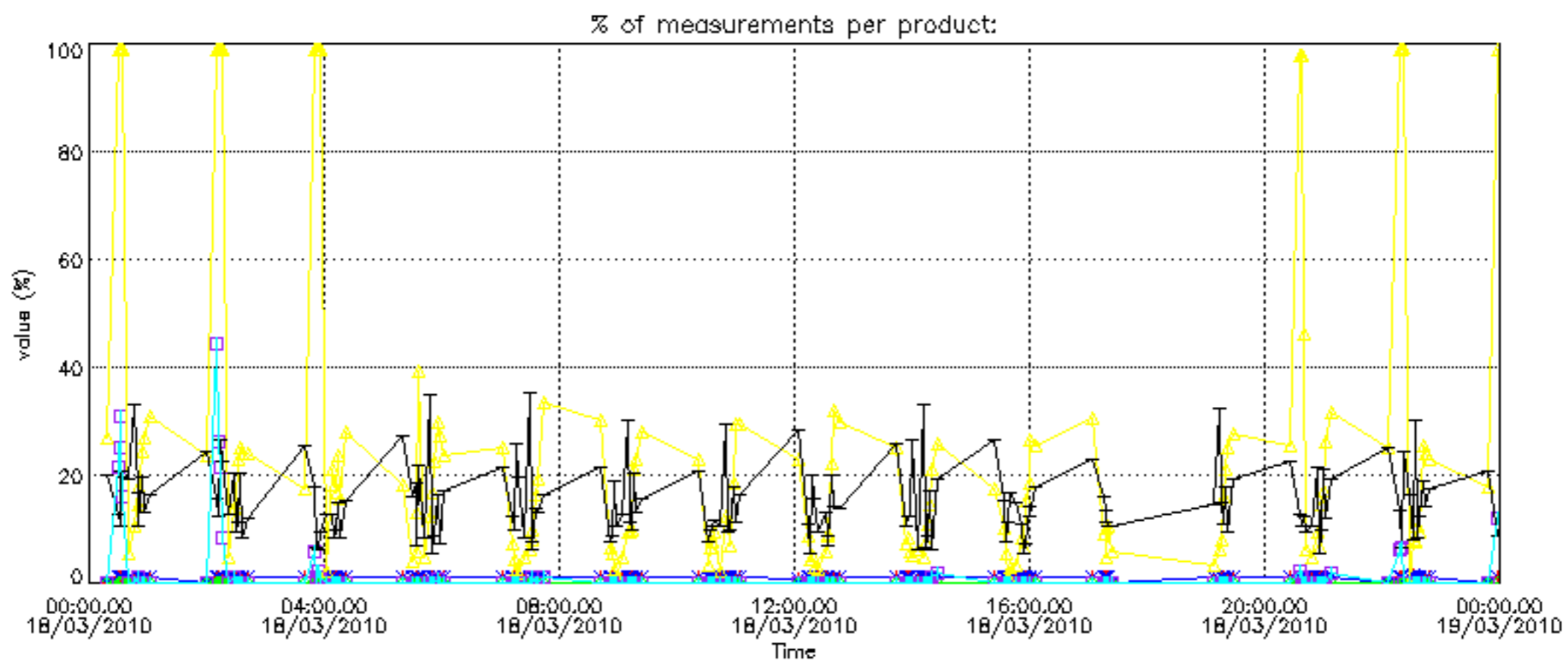


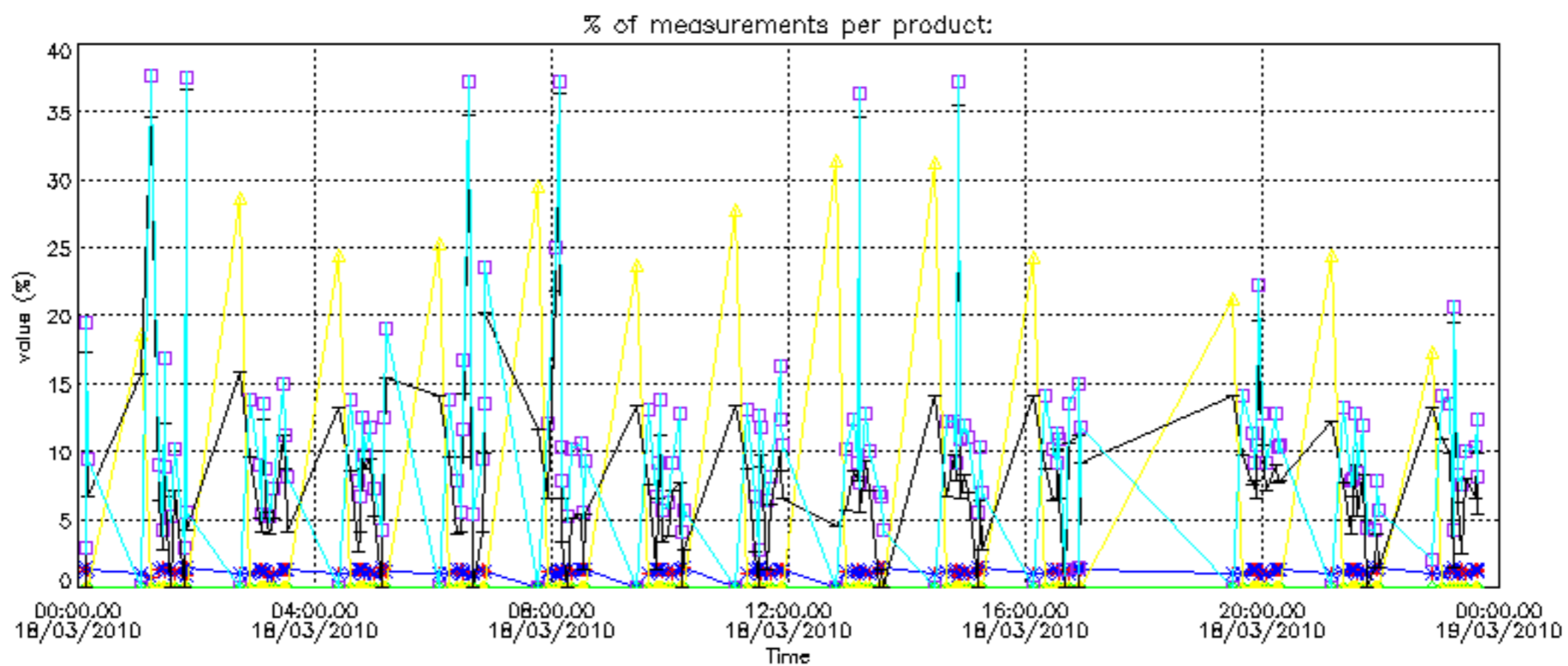
Percentage of flagged data per NO2 profile



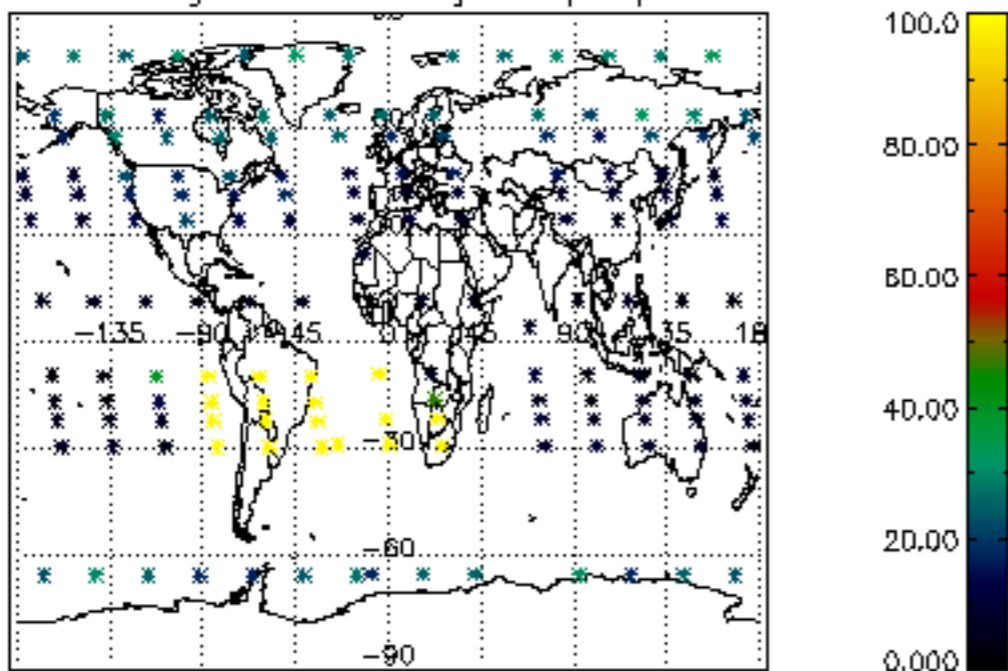
Percentage of flagged data per NO3 profile



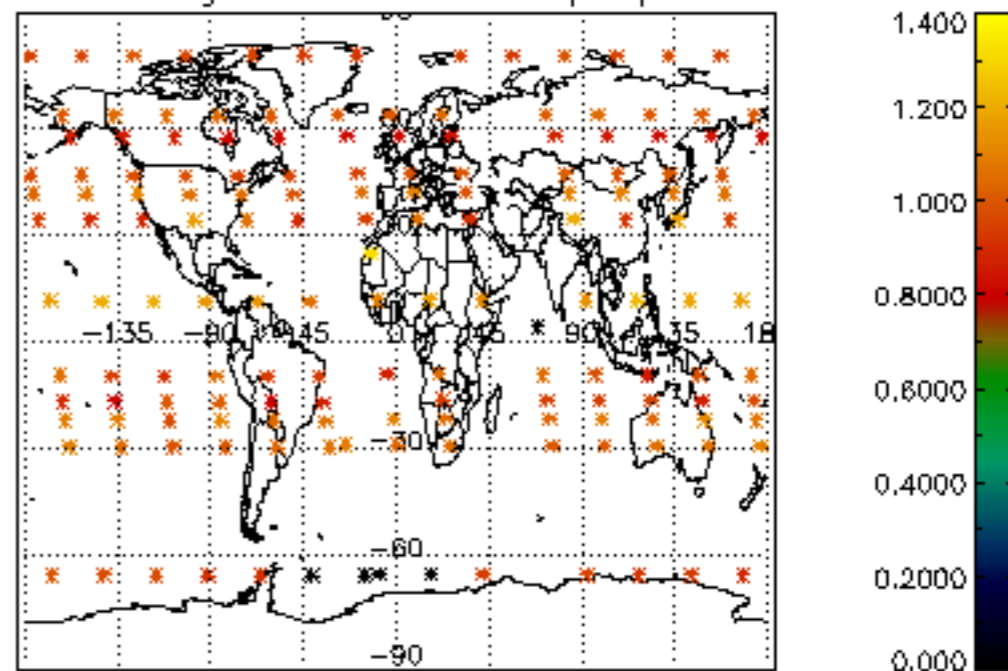




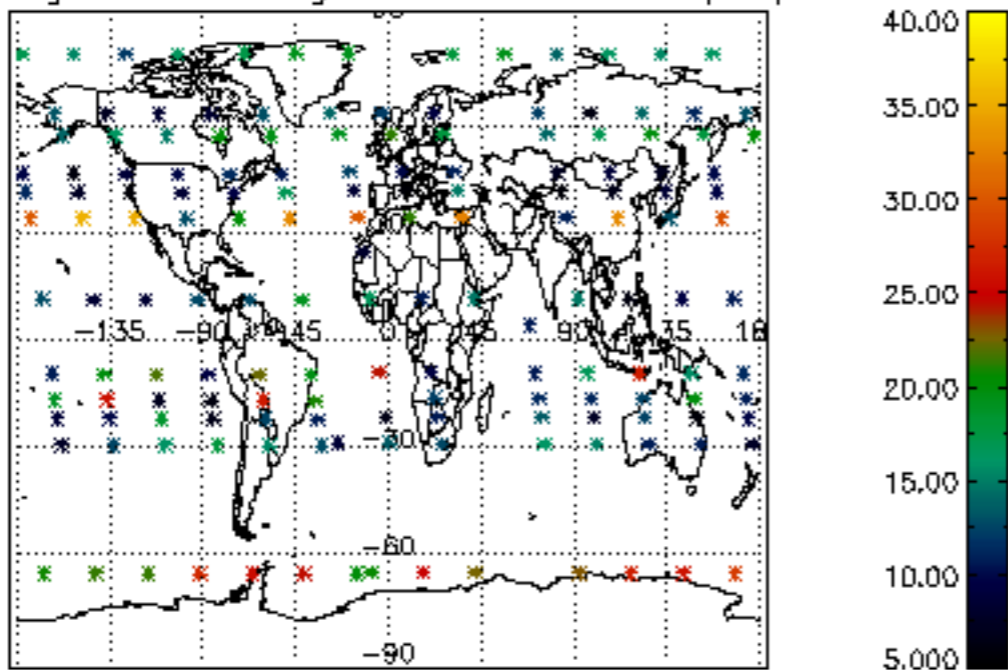
Percentage of cosmic ray hits per profile



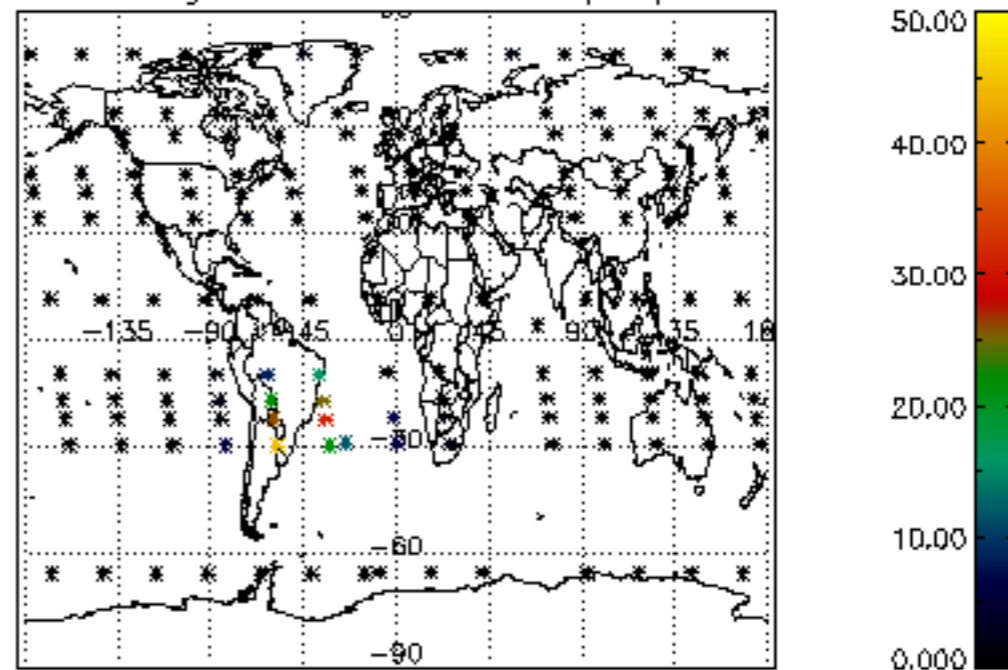
Percentage of datation errors per profile



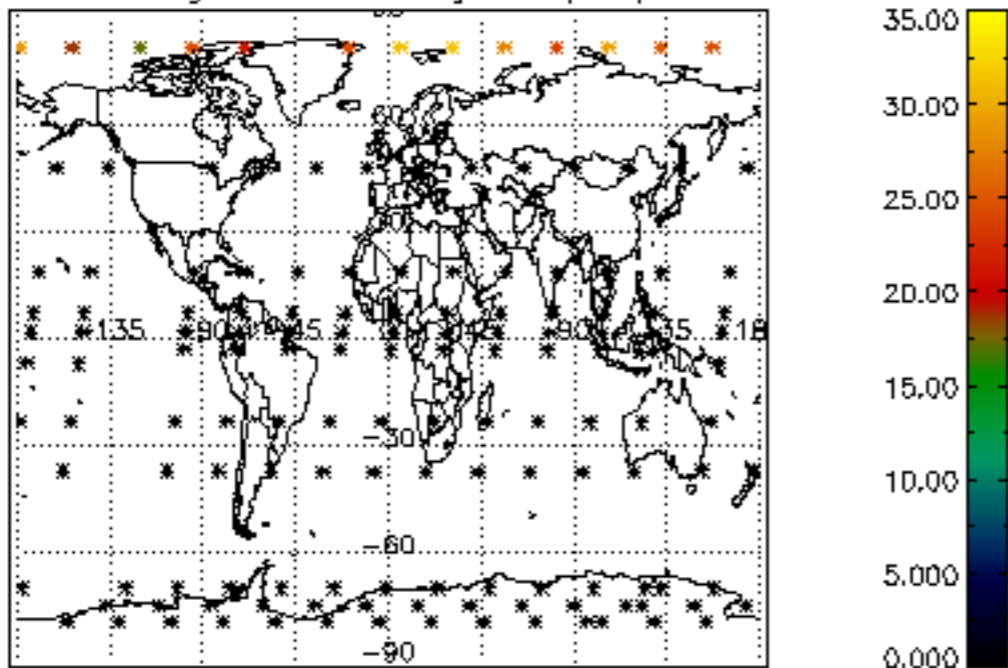
Percentage of star falling outside central band per profile



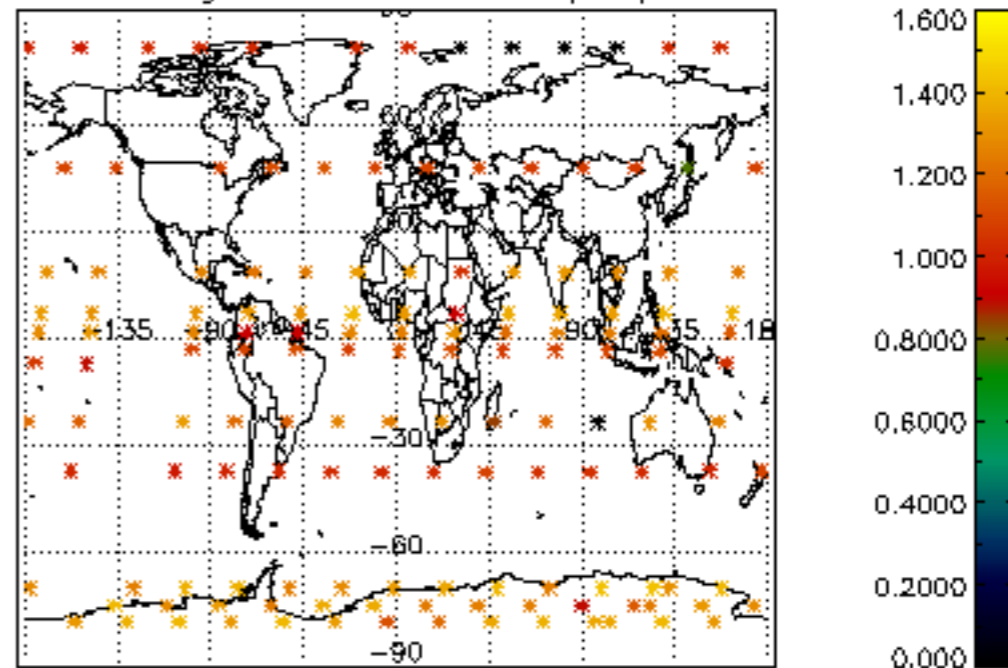
Percentage of saturation errors per profile



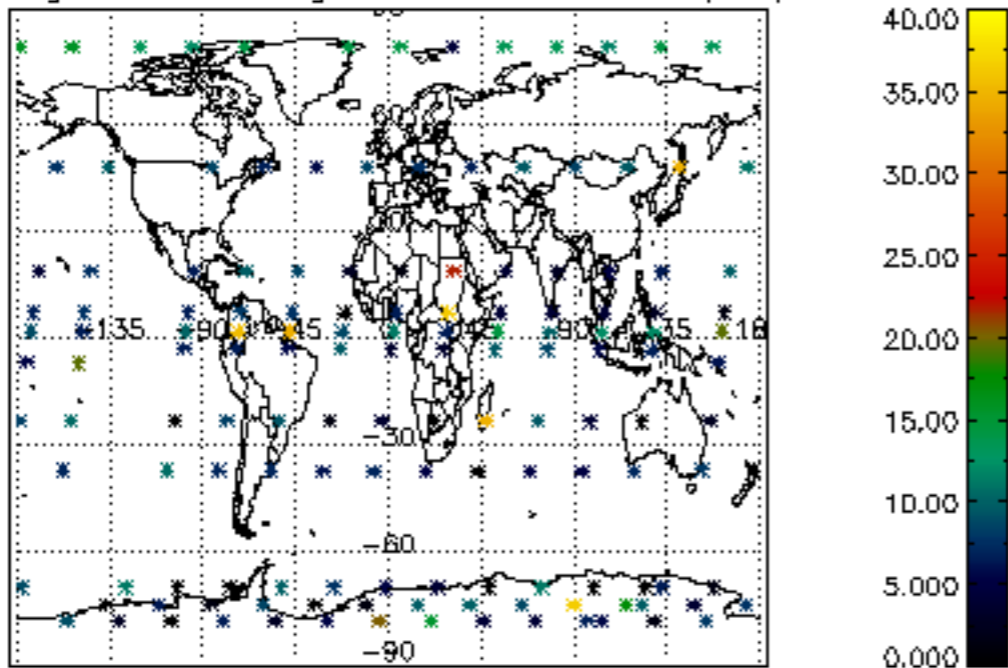
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

